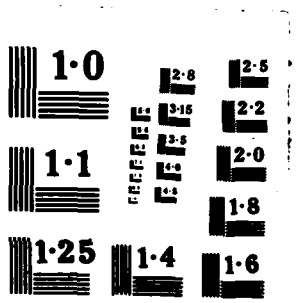
AD-A186 616 GRAFENWOHR AAF GERMANY REVISED UNIFORM SUMMARY OF SURFACE WEATHER OBSERVA..(U) AIR FORCE ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER SCOTT A.. OCT 87 1/3

UNCLASSIFIED USAFETAC/DS-87/063 F/G 4/2 NL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OPERATING LOCATION - A
USAFETAC
Air Weather Service (MAC)

REVISED UNIFORM SUMMARY OF
SURFACE WEATHER OBSERVATIONS

GRAFENWOHR AAF GERMANY MSC #106870
N 49 42 E 011 57 ELEV:1360 FT EDIC

PARTS A - F HOURS SUMMARIZED: 0000 - 2300 LST

PERIOD OF RECORD:
HOURLY OBSERVATIONS: JUN 77 - MAY 87
SUMMARY OF DAY DATA: JUN 62 - MAY 87

"Approved for public release;
Distribution is Unlimited."

FEDERAL BUILDING

ASHEVILLE, N.C. 28801 - 2723

REVIEW AND APPROVAL STATEMENT

USAFETAC/DS-87/063 GRAFENWOHR AAF GERMANY (RUSSWO) Oct 1987, is approved for public release. There is no objection to unlimited distribution of this document to the public at large, or by the Defense Technical Information Center (DTIC) to the National Technical Information Service (NTIS).

This document has been reviewed and is approved for publication.

FOR THE COMMANDER

WALTER S. BURGMANN
Scientific and Technical Information Program Manager

REPORT DOCUMENTATION PAGE

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3. **Distribution/Availability of Report:** Approved for public release; Distribution unlimited.

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6a. **Name of Performing Organization:** USAFETAC/OL-A
6b. **Office Symbol:**
6c. **Address:** Federal Building, Asheville, NC 28801-2723.

11 **Title:** (RUSSWO) Grafenwohr AAF Germany.

12 **Personal Author(s):**

13a **Type of Report:** Data Summary
13b **Time Covered:** Jun 62-May 87.

14 **Date of Report:** Oct 87

15 **Page Count:** 312

16 **Supplementary Notation:**

17 **COSATI Codes:** Field--04, Group--02

18 **Subject Terms:** *climatology; *weather; meteorological conditions; winds; precipitation; temperature; visibility; barometric pressure; relative humidity; sky cover; psychrometric data; ceiling; Revised Uniform Summary of Surface Weather Observations (RUSSWO); Grafenwohr AAF Germany; DL106870.

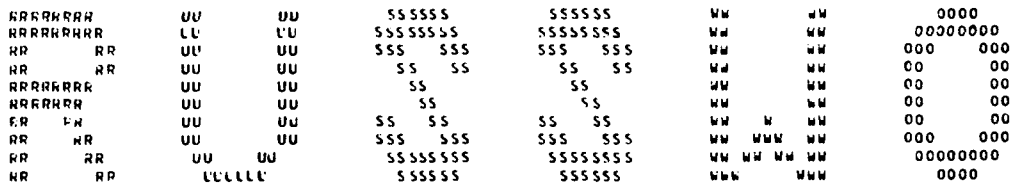
19 **Abstract:** A six-part statistical data summary of surface weather observations for: Grafenwohr AAF Germany. Summary consists of: PART A, Weather Conditions and Atmospheric Phenomena; PART B, Precipitation; PART C, Surface Winds; PART D, Ceiling and Visibility; PART E, Psychrometric Summaries; PART F, Pressure Summaries. See USAFETAC/TN-83/001 (ADA132186), An Aid for Using the Revised Uniform Summary of Surface Weather Observations (RUSSWO) for complete description of contents and instructions for use.

20 **Distribution/Availability of Abstract:** Same as report.

21 **Abstract Security Classification:** UNCLASSIFIED.

22a **Name of Responsible Individual:** Marianne L. Cavanaugh
22b **Telephone:** (618)256-2625
22c **Office Symbol:** USAFETAC/LDD

DD FORM 1473 **UNCLASSIFIED**



STATION NAME: GRAFENWOHR AAF GERMANY

STATION NUMBER: 106670

CALL ID: EDIC

PERIOD OF RECORD:

HOURLY OBSERVATIONS: JUN 77 - MAY 87

SUMMARY OF DAY DATA: JUN 62 - MAY 87

HOURS SUMMARIZED: 0000-2300 LST

TIME CONVERSION LST TO GMT: -1

DATE PRODUCED: 15 SEP 1987

OL-A/USAFETAC/MAC/AWS
ASHEVILLE NC 28801

REVISED UNIFORM SUMMARY OF SURFACE WEATHER OBSERVATIONS

HOURLY OBSERVATIONS: ALL RECORD OR RECORD SPECIAL OBSERVATIONS RECORDED ON THE AWS FORMS 10/10A AT SCHEDULED HOURLY INTERVALS.

SUMMARY OF DAY DATA (DAILY OBSERVATIONS): DATA COMPILED FROM ALL AVAILABLE OBSERVATIONS WHICH INCLUDES HOURLY OBSERVATIONS AND DAILY DATA RECORDED IN COLUMNS 66-73, AWS FORMS 10/10A.

DESCRIPTION OF SUMMARIES: PRECEEDING EACH PART OF THE RUSSWO IS A BRIEF DISCUSSION OF THE SUMMARY INCLUDING THE MANNER OF PRESENTATION.

STANDARD 3-HOUR TIME GROUPS: IN ALL SUMMARIES SHOWING DIURNAL VARIATIONS, WE SUMMARIZE DATA USING THE FOLLOWING EIGHT 3-HOUR TIME PERIODS IN LOCAL STANDARD TIME: 0000-0200, 0300-0500, 0600-0800, 0900-1100, 1200-1400, 1500-1700, 1800-2000, 2100-2300 LST.

FOR A DETAILED DESCRIPTION OF EACH SUMMARY WITH EXAMPLES AND EXERCISES ON ITS USAGE, SEE USAFETAC/TN-83-001, "AN AID FOR USING THE REVISED UNIFORM SUMMARY OF SURFACE WEATHER OBSERVATIONS" (RUSSWO).

TABLE OF CONTENTS

AWSWSC NUMBER: THIS NUMBER IS THE AIR WEATHER SERVICE MASTER STATION CATALOG NUMBER. THIS NUMBER IS COMPRISED OF THE WMO NUMBER WITH THE ADDITION OF A SUFFIX (0 THROUGH 9). IN CASES WHERE THERE IS NO DESIGNATED WMO NUMBER, A 5-DIGIT NUMBER IS CREATED IN AGREEMENT WITH WMO RULES PLUS A SIXTH DIGIT. THESE NUMBERS ARE ALSO REFERRED TO AS DATSAV OR USAFETAC NUMBERS WHICH UNIQUELY IDENTIFY MORE THAN 15,000 REPORTING STATIONS WORLD WIDE.

STATION NO. OR SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV (FT)	CALL SIGN	WMO NUMBER
106870	GRAFENWOHR GERMANY AAF	N 49 42	E 011 57	1360	EDIC	10687

STATION LOCATION AND INSTRUMENTATION HISTORY

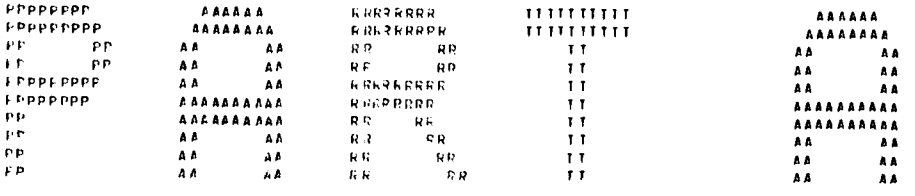
NUMBER OF LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION FROM	AT THIS LOCATION TO	LATITUDE	LONGITUDE	ELEVATION ABOVE MSL STATION (FT)	ELEVATION ABOVE MSL HGT BAROMETER	OBS PER DAY
1	Grafenwohr Germany	AAF	Jan 59	May 62	N 49 42	E 011 57	1370	N/A	12 to 16
2	No change	AAF	Jun 62	Feb 65	No chge	No chge	No chge	N/A	24
3	No change	AAF	Mar 65	Dec 70	No chge	No chge	No chge	1363	24
4	Same	AAF	Jan 71	Aug 82	Same	Same	1360	Same	24
5	Same	AAF	Sep 82	Dec 83	Same	Same	1360	Same	24
6	Same	AAF	Jan 84	May 87	Same	Same	1360	Same	24

NOTE: WEATHER MODIFICATION CONDUCTED (JAN 68) (REF AWSTR-74-247)

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION: LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
1	Jan 59 to Feb 60	Located on top of helicopter shed, 100 ft W of active rnwy.	AN/GMQ-11	None	20 ft	
2	Mar 60 to Feb 61	Located on top of hangar roof, 100 ft W of active rnwy.	No chge	No chge	35 ft	
3	Mar 61 to Sep 67	Located on top of control tower.	No chge	RO-2	50 ft	
4	Oct 67 to Dec 70	Located 285 ft from centerline parallel with Rnwy 32.	No chge	No chge	13 ft	

USAFETAC FORM AFCC 0-19 (OL A)

CONTINUED ON REVERSE SIDE



WEATHER CONDITIONS AND ATMOSPHERIC PHENOMENA SUMMARIES

WEATHER CONDITIONS SUMMARY

1. A PERCENTAGE FREQUENCY OCCURRENCE SUMMARY OF VARIOUS ATMOSPHERIC PHENOMENA AND OBSTRUCTIONS TO VISION.
2. DATA BASED ON HOURLY OBSERVATIONS.
3. SUMMARIZED BY THE STANDARD 3-HOUR TIME GROUPS BY MONTH, MONTHLY AND ANNUALLY (ALL YEARS COMBINED).

ATMOSPHERIC PHENOMENA SUMMARY

1. A PERCENTAGE FREQUENCY OF DAYS SUMMARY OF VARIOUS ATMOSPHERIC PHENOMENA AND OBSTRUCTIONS TO VISION.
2. DATA BASED ON SUMMARY OF DAY DATA.
3. SUMMARIZED BY MONTH WITH ALL HOURS AND ALL YEARS COMBINED.

DEFINITIONS:

THUNDERSTORMS: ALL REPORTED THUNDERSTORMS, TORNADOES AND WATERSPOUTS.

RAIN AND/OR DRIZZLE: ALL REPORTED RAIN AND OR DRIZZLE FALLING TO THE GROUND BUT NOT FREEZING.

FREEZING RAIN AND/OR FREEZING DRIZZLE (GLAZE): ALL REPORTED FREEZING RAIN OR FREEZING DRIZZLE.

SNOW AND/OR SLEET. SNOW INCLUDING SNOW PELLETS AND GRAINS, ICE CRYSTALS AND PELLETS, AND/OR SLEET (ICE PELLETS).

HAIL: ALL REPORTED HAIL.

ALL PRECIPITATION: THIS CATEGORY INCLUDES ALL OBSERVATIONS REPORTING PRECIPITATION. BECAUSE MORE THAN ONE TYPE OF PRECIPITATION MAY APPEAR IN A SINGLE OBSERVATION, THE SUM OF THE PERCENTAGES IN THE INDIVIDUAL COLUMNS MAY EXCEED THE PERCENTAGES IN THIS COLUMN.

FOG: ALL REPORTED FOG, ICE FOG AND GROUND FOG.

SMOKE AND/OR HAZE: ALL REPORTED SMOKE, HAZE AND ANY COMBINATION THEREOF.

BLOWING SNOW: ALL REPORTED BLOWING SNOWS INCLUDING DRIFTING WHEN REPORTED.

DUST AND/OR SAND: ALL REPORTED DUST, SAND, BLOWING DUST, BLOWING SAND AND ANY COMBINATION THEREOF. THE ATMOSPHERIC PHENOMENA SUMMARY (DAYS WITH) INCLUDES ONLY THOSE REPORTS WHEN THE PHENOMENA VISIBILITY LESS THAN 5/8 MILES (1000 METERS).

ALL OBSTRUCTIONS TO VISION: INCLUDES ALL REPORTS OF OBSTRUCTIONS TO VISION (FOG THRU DUST/SAND) AND BLOWING SPRAY. BECAUSE MORE THAN ONE PHENOMENA PER OBSERVATION MAY OCCUR, THE SUM OF THE INDIVIDUAL COLUMNS MAY EXCEED THIS COLUMN.

NOTES:

1. A VALUE IN THE TABLES OF ".0" INDICATES LESS THAN .05% OCCURRENCE WHICH IS USUALLY ONLY ONE OCCURRENCE

2. METAR STATIONS (BEGINNING IN JAN 1968) AND SYNOPTIC REPORTING STATIONS RECORDED ON THE AWS FORMS 10/10A AND TRANSMITTED LONGLINE ONLY THE HIGHEST ORDER OF ATMOSPHERIC PHENOMENA OBSERVED. BEGINNING IN JAN 1970, METAR STATIONS RECORDED ALL OBSERVED PHENOMENA BUT CONTINUED TO TRANSMIT ONLY THE HIGHEST ORDER. FOR EXAMPLE, IF THE OBSERVATION CONTAINED RAIN, FOG AND SMOKE, ALL THREE WILL APPEAR ON THE AWS FORMS 10/10A, BUT ONLY THE RAIN WAS TRANSMITTED LONGLINE. THEREFORE ONLY THE RAIN APPEARS IN OUR DATA BASE FOR HOURLY SUMMARIZATION. THIS PRACTICE EFFECTS THE PERCENTAGES IN THE TABLES.

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: JAN

HOURS (LST)	TSTMS	RAIN &/OR DRIZZLE	FRZING RAIN &/OR DRIZZLE	SNOW &/OR SLEET	HAIL	% OBS WITH PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	% OBS W/OBST TO VISION	TOTAL OBS
00-02		8.1	1.7	25.2		34.1	47.6	.3			47.9	862
03-05		8.4	1.5	24.0		33.4	49.0	.6			49.6	871
06-08		9.5	1.6	26.3		36.5	47.0	1.1			48.1	883
09-11		11.0	1.1	33.9		44.1	37.8	2.4			40.2	889
12-14		11.9	.6	30.2		41.3	26.7	8.3	.1		35.1	891
15-17		10.5	.3	29.4		38.9	28.7	10.8			39.5	891
18-20	.1	9.9	.4	24.4		33.0	43.5	2.1	.2		45.9	891
21-23		9.6	.8	22.7		31.8	48.6	.6	.2		49.4	885
TOTALS	.0	9.9	1.0	27.0		36.6	41.1	3.3	.1		44.5	7063

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: FEB

HOURS (LST)	TSTMS	RAIN &/OR DRIZZLE	FRZING RAIN &/OR DRIZZLE	SNOW &/OR SLEET	HAIL	% OBS WITH PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	% OBS W/OBST TO VISION	TOTAL OBS
00-02		5.8	1.3	14.2		20.7	59.1	1.4			60.5	846
03-05		7.2	1.2	14.1		21.5	61.0	1.2			62.2	846
06-08		8.7	.9	17.7		27.0	58.2	2.2			60.4	846
09-11		8.9	.6	20.8		29.7	42.0	13.8			55.8	846
12-14		10.3	.2	16.1	.1	25.7	23.6	23.3			46.9	846
15-17		9.7		16.7		24.9	19.3	24.0			43.3	846
18-20	.1	9.3	.1	13.5		22.0	44.3	11.1	.4		55.8	846
21-23		7.6	1.1	15.7		23.9	53.4	4.1			57.6	846
TOTALS	.0	8.4	.7	16.1	.0	24.4	45.1	10.1	.1		55.3	6768

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR PERIOD OF RECORD: 78-87
MONTH: MAR

HOURS (LST)	TSTMS	RAIN &/OR DRIZZLE	FRZING RAIN &/OR DRIZZLE	SNOW &/OR SLEET	HAIL	% OBS WITH PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	% OBS W/OBST TO VISION	TOTAL OBS
00-02		12.5	.1	6.6		19.0	53.1	1.8			54.9	930
03-05		12.7		10.0		21.6	52.3	1.6			53.9	930
06-08		13.0		10.5		23.0	54.3	2.9			57.2	930
09-11		15.3		11.9		25.6	30.5	17.0			47.5	930
12-14		15.1		7.2		21.1	13.7	22.8			36.5	930
15-17		14.6		6.1		19.6	10.4	19.0			29.5	930
18-20	.1	14.4		6.1		19.5	23.7	14.2			37.8	930
21-23		12.6		5.3		17.0	45.4	5.3			50.6	930
TOTALS	.0	13.6	.0	8.0		20.8	35.4	10.6			46.0	7440

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR PERIOD OF RECORD: 78-87
MONTH: APR

HOURS (LST)	TSTMS	RAIN &/OR DRIZZLE	FRZING RAIN &/OR DRIZZLE	SNOW &/OR SLEET	HAIL	% OBS WITH PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	% OBS W/OBST TO VISION	TOTAL OBS
00-02		11.7		3.4		14.8	49.1	2.5			51.6	884
03-05		12.5		5.5		17.6	61.1	1.7			62.8	885
06-08		13.9		7.4		20.7	51.9	8.5			60.3	887
09-11		13.5		7.4		19.8	16.0	25.5			41.5	891
12-14	.2	14.6		4.9	.1	18.3	3.7	18.4			22.1	891
15-17	.2	13.4		3.4		16.1	2.7	11.1			13.9	888
18-20	.1	14.3	.1	3.4		16.5	10.1	13.1			23.2	883
21-23	.3	11.4		3.9		14.3	32.8	8.2			40.9	882
TOTALS	.1	13.2	.0	4.9	.0	17.3	28.4	11.1			39.5	7091

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR PERIOD OF RECORD: 78-87
MONTH: MAY

HOURS (LST)	TSTMS	RAIN &/OR DRIZZLE	FRZING RAIN &/OR DRIZZLE	SNOW &/OR SLEET	HAIL	% OBS WITH PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	% OBS W/OBST TO VISION	TOTAL OBS
00-02	.7	17.5		.1		17.5	42.8	1.5			44.3	918
03-05		15.5		.3		15.7	62.0	1.2			63.2	918
06-08	.1	16.1		.4	.1	16.5	47.5	9.5			57.0	924
09-11	.1	17.1		.2		17.2	9.5	16.5			25.9	930
12-14	1.5	18.6		.8	.2	19.1	3.1	7.0			10.1	930
15-17	3.0	17.4		.1	.3	17.6	2.6	4.6			7.2	927
18-20	3.0	16.6				16.6	6.4	4.8			11.2	921
21-23	1.1	18.5				18.5	22.9	3.5			26.4	922
TOTALS	1.2	17.2		.2	.1	17.4	24.6	6.1			30.7	7390

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR PERIOD OF RECORD: 77-86
MONTH: JUN

HOURS (LST)	TSTMS	RAIN &/OR DRIZZLE	FRZING RAIN &/OR DRIZZLE	SNOW &/OR SLEET	HAIL	% OBS WITH PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	% OBS W/OBST TO VISION	TOTAL OBS
00-02	1.1	11.0				11.0	41.0	1.7			42.6	896
03-05	1.0	13.3				13.3	58.7	.7			59.4	899
06-08	.4	14.8				14.8	42.0	10.8			52.6	900
09-11		12.0				12.0	6.3	18.1			24.4	900
12-14	1.6	10.9				10.9	2.6	8.8			11.3	900
15-17	2.9	9.9				9.9	2.6	5.4			8.0	900
18-20	1.8	10.1				10.1	4.1	6.6			10.7	900
21-23	1.4	9.6				9.8	24.6	5.7			30.5	898
TOTALS	1.3	11.5				11.5	22.6	7.2			30.0	7193

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR PERIOD OF RECORD: 77-86
MONTH: JUL

HOURS (LST)	TSTMS	RAIN &/OR DRIZZLE	FRZING RAIN &/OR DRIZZLE	SNOW &/OR SLEET	HAIL	% OBS WITH PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	% OBS W/OBST TO VISION	TOTAL OBS
00-02	.6	10.0				10.0	51.6	1.5			53.1	924
03-05	.2	11.7				11.7	69.2	.5			69.7	924
06-08		12.9				12.9	53.5	11.0			64.5	924
09-11	.2	14.7				14.7	9.1	20.6			29.7	924
12-14	.8	14.1				14.1	3.0	9.0			12.0	924
15-17	2.2	11.6				11.6	3.6	6.0			9.5	924
18-20	2.6	10.6				10.6	5.3	7.3			12.6	922
21-23	2.1	11.1				11.1	31.3	6.4			37.7	922
TOTALS	1.1	12.1				12.1	28.3	7.8			36.1	7386

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR PERIOD OF RECORD: 77-86
MONTH: AUG

HOURS (LST)	TSTMS	RAIN &/OR DRIZZLE	FRZING RAIN &/OR DRIZZLE	SNOW &/OR SLEET	HAIL	% OBS WITH PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	% OBS W/OBST TO VISION	TOTAL OBS
00-02	1.0	9.1				9.1	62.6	1.0			63.5	930
03-05	.8	9.4				9.4	74.7	.4			75.2	930
06-08	.5	10.6				10.6	67.8	6.8			74.6	930
09-11	.2	9.6				9.8	16.1	31.5			47.6	930
12-14	1.1	11.6				11.6	2.0	18.6			20.6	930
15-17	2.3	11.1				11.1	2.2	11.3			13.4	930
18-20	2.6	11.8				11.8	10.8	11.7			22.5	930
21-23	1.6	10.6				10.8	40.8	3.9			44.6	930
TOTALS	1.3	10.5				10.5	34.6	10.7			45.3	7440

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-86
MONTH: SEP

HOURS (LST)	TSTMS	RAIN &/OR DRIZZLE	FRZING RAIN &/OR DRIZZLE	SNOW &/OR SLEET	HAIL	% OBS WITH PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	% OBS W/OBST TO VISION	TOTAL OBS
00-02	.4	14.0				14.0	59.7				59.7	894
03-05		11.5				11.5	67.8				67.8	894
06-08		14.3				14.3	71.2	1.5			72.6	895
09-11	.1	13.4				13.4	28.9	24.3			53.1	894
12-14	.2	10.2			.1	10.3	7.3	21.1			28.4	894
15-17	.4	11.7				11.7	4.9	12.6			17.6	894
18-20	1.6	12.1				12.1	20.6	9.7			30.2	890
21-23	.1	12.6				12.6	45.7	1.8			47.5	889
TOTALS	.4	12.5			.0	12.5	38.3	8.9			47.1	7144

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-86
MONTH: OCT

HOURS (LST)	TSTMS	RAIN &/OR DRIZZLE	FRZING RAIN &/OR DRIZZLE	SNOW &/OR SLEET	HAIL	% OBS WITH PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	% OBS W/OBST TO VISION	TOTAL OBS
00-02		12.5		.3		12.7	64.8	.3			65.1	929
03-05		13.2		.1		13.2	68.6				68.6	930
06-08		13.5		.1		13.5	69.9	.8			70.6	930
09-11		14.5				14.5	46.3	13.4			59.8	930
12-14		13.7			.1	13.8	17.0	22.2			39.1	930
15-17		14.5				14.5	12.4	20.5			32.9	930
18-20	.1	13.5		.1		13.5	44.5	6.0			50.5	930
21-23		12.6		.3		12.9	58.9	1.0			59.9	930
TOTALS	.0	13.5		.1	.0	13.6	47.8	8.0			55.8	7439

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER PERIOD OF RECORD: 77-86
MONTH: NOV

HOURS (LST)	TSTMS	RAIN &/OR DRIZZLE	FRZNG RAIN &/OR DRIZZLE	SNOW &/OR SLEET	HAIL	% OBS WITH PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	% OBS W/OBST TO VISION	TOTAL OBS
00-02		16.5	.1	8.0		23.4	58.0	.5			58.5	886
03-05		15.9	.3	7.3		22.8	59.8	.3			60.1	885
06-08	.1	13.5	.5	9.5		22.5	59.6	.1			59.7	888
09-11		12.2	.3	12.7		24.9	52.4	2.9			55.3	888
12-14		14.2		11.7		24.9	34.4	11.7			46.1	887
15-17		14.2	.1	9.0		22.5	35.8	9.9			45.7	886
18-20		13.1	.2	8.3	.1	21.2	51.9	2.5			54.4	888
21-23		14.5	.1	8.8		22.8	54.1	.6			54.7	887
TOTALS	.0	14.3	.2	9.4	.0	23.1	50.8	3.6			54.3	7097

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER PERIOD OF RECORD: 77-86
MONTH: DEC

HOURS (LST)	TSTMS	RAIN &/OR DRIZZLE	FRZNG RAIN &/OR DRIZZLE	SNOW &/OR SLEET	HAIL	% OBS WITH PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	% OBS W/OBST TO VISION	TOTAL OBS
00-02		17.1	1.0	15.5		32.5	47.1	.9			48.0	767
03-05	.1	16.3	2.0	15.3		32.9	45.5	.5			46.0	805
06-08		14.5	2.3	14.4		30.4	48.8	.6			49.4	856
09-11		16.4	1.5	18.7		35.5	43.8	3.1			47.0	866
12-14		16.7	.8	15.6	.1	32.7	34.8	8.0			42.8	851
15-17		16.7	.5	13.3		30.2	39.6	5.1			44.7	844
18-20		17.2	.2	13.8		30.1	49.3	1.6			50.8	826
21-23		16.1	.9	13.8		30.2	51.5	1.0			52.6	778
TOTALS	.0	16.4	1.2	15.1	.0	31.8	45.1	2.6			47.7	6587

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-87
MONTH: ALL

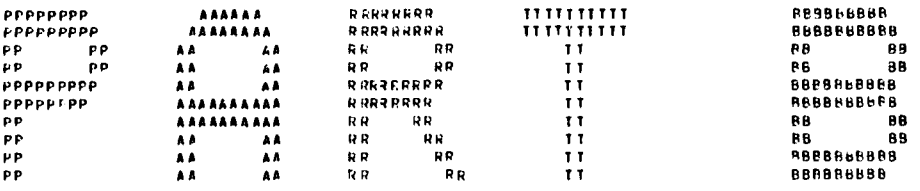
HOURS (LST)		TSTMS	RAIN &/OR DRIZZLE	FRZING RAIN &/OR DRIZZLE	SNOW &/OR SLEET	HAIL	% OBS WITH PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	% OBS W/OBST TO VISION	TOTAL OBS
JAN	ALL	.0	9.9	1.0	27.0		36.6	41.1	3.3	.1		44.5	7063
FEB		.0	8.4	.7	16.1	.0	24.4	45.1	10.1	.1		55.3	6768
MAR		.0	13.6	.0	8.0		20.8	35.4	10.6			46.0	7440
APR		.1	13.2	.0	4.9	.0	17.3	28.4	11.1			39.5	7091
MAY		1.2	17.2		.2	.1	17.4	24.6	6.1			30.7	7390
JUN		1.3	11.5				11.5	22.8	7.2			30.0	7193
JUL		1.1	12.1				12.1	28.3	7.8			36.1	7388
AUG		1.3	10.5				10.5	34.6	10.7			45.3	7440
SEP		.4	12.5			.0	12.5	38.3	8.9			47.1	7144
OCT		.0	13.5		.1	.0	13.6	47.8	8.0			55.8	7439
NOV		.0	14.3	.2	9.4	.0	23.1	50.8	3.6			54.3	7097
DEC		.0	16.4	1.2	15.1	.0	31.8	45.1	2.6			47.7	6587
	TOTALS	.5	12.8	.3	6.7	.0	19.3	36.9	7.5	.0		44.4	86040

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE OF DAYS WITH VARIOUS ATMOSPHERIC PHENOMENA
FROM DAILY OBSERVATIONS

STATION NUMBER: 10687C STATION NAME: GRAFENWOHR AF GER PERIOD OF RECORD: 62-87
MONTH: ALL

MONTH	TSTMS	RAIN &/OR DRIZZLE	FRZING RAIN &/OR DRIZZLE	SNOW &/OR SLEET	FAIL	% OBS WITH PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	% OBS W/OBST TO VISION	TOTAL OBS
JAN	.3	36.7	6.7	56.7	.1	72.2	86.7	44.8	.7		93.8	762
FEB	.6	32.9	4.4	45.9		61.5	84.6	60.6	1.3		94.7	703
MAR	1.4	46.5	.6	31.6	.1	61.5	81.7	64.3	.3		90.5	775
APR	4.3	53.9	.1	18.2	.8	59.7	80.9	61.7			88.1	747
MAY	13.4	59.0		2.5	1.3	59.2	78.7	57.0			84.6	775
JUN	20.0	59.3		.7	1.3	59.3	78.1	59.1			85.2	750
JUL	17.6	52.3		.1	.6	52.3	83.6	59.9			88.4	773
AUG	15.0	52.1			.4	52.1	85.5	67.4			91.2	775
SEP	5.9	48.7			.3	48.7	96.8	68.8			91.2	749
OCT	.6	46.5		2.6		46.6	90.2	65.9			85.0	775
NOV	.5	51.8	2.1	29.9		65.7	87.8	50.2	.1		93.3	747
DEC	.3	43.7	5.1	44.5		69.3	85.4	43.1	.4		93.5	749
TOTALS	6.7	48.6	1.6	19.3	.4	59.0	84.2	58.6	.2		90.8	9080



PRECIPITATION, SNOWFALL AND SNOW DEPTH SUMMARIES

PERCENTAGE FREQUENCY OF VARIOUS DAILY AMOUNTS OF PRECIPITATION (SNOWFALL AND SNOW DEPTH) SUMMARIES:

THESE SUMMARIES DERIVE FROM SUMMARY OF DAY DATA.

DATA IS SUMMARIZED MONTHLY AND ANNUALLY WITH ALL YEARS COMBINED.

DISPLAYED ARE: PERCENT OF DAYS WITH MEASURABLE AMOUNTS, A PERCENT OF DAYS WITH NO AMOUNTS, TRACES, GIVEN AMOUNTS, MEANS, GREATEST AMOUNTS AND LEAST AMOUNTS (THE STATISTICAL VALUES ARE NOT INCLUDED IN THE SNOW DEPTH SUMMARY BECAUSE OF THEIR DOUBTFUL AND LIMITED VALUE).

ALSO PROVIDED ARE THE OBSERVATION COUNTS.

A VALUE OF ".0" IN THESE TABLES INDICATES LESS THAN .05% WHICH USUALLY INDICATES ONLY ONE OCCURRENCE.

EXTREME DAILY AMOUNTS OF PRECIPITATION (SNOWFALL AND SNOW DEPTH) SUMMARIES

DATA DERIVED FROM SUMMARY OF DAY DATA

PRESENTED ARE THE EXTREME DAILY AMOUNTS OF PRECIPITATION, SNOWFALL AND SNOW DEPTH BY INDIVIDUAL MONTH AND YEAR.

ALSO PRESENTED ARE THE MEANS, STANDARD DEVIATIONS AND TOTAL OBSERVATIONS COUNTS.

AN ASTERISK "*" PRINTED IN THE TABLES INDICATES THAT THE EXTREME VALUE FOR THAT YEAR AND MONTH DERIVES FROM AN INCOMPLETE MONTH (AT LEAST ONE DAY OF THE MONTH IS MISSING).

WHEN A MONTH HAS VALID OBSERVATIONS REPORTED BUT NO OCCURRENCES, ZEROS ARE DISPLAYED IN THE TABLES:

EXTREME DAILY PRECIPITATION:	".00"	EQUALS NONE FOR THE MONTH (HUNDREDTHS)
EXTREME DAILY SNOWFALL:	".0"	EQUALS NONE FOR THE MONTH (TENTHS)
EXTREME DAILY SNOW DEPTH:	"0"	EQUALS NONE FOR THE MONTH (WHOLE INCHES)

TOTAL MONTHLY AMOUNTS OF PRECIPITATION AND SNOWFALL SUMMARIES

DATA DERIVED FROM SUMMARY OF DAY DATA.

DATA PRESENTED BY YEAR AND MONTH.

ALSO PRESENTED ARE THE MEANS, STANDARD DEVIATIONS AND TOTAL OBSERVATION COUNTS.

AN ASTERISK "*" IN THE TABLES INDICATES THAT ONE OR MORE DAYS WERE MISSING FOR THE MONTH.

NO OCCURRENCES FOR THE MONTH ARE INDICATED BY ZEROS.

IF THE AMOUNT IS A TRACE, THEN "TRACE" IS PRINTED IN THE TABLES.

STATISTICAL VALUES DO NOT INCLUDE MEASUREMENTS FROM INCOMPLETE MONTHS.

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF PRECIPITATION
FROM SUMMARY OF DAY DATA

STATION NUMBER: 1C687C STATION NAME: GRAFENWOHR AF GER PERIOD OF RECORD: 62-87

AMOUNTS IN INCHES

MONTH	NONE	TRACE	.01	.02 TO .05	.06 TO .10	.11 TO .25	.26 TO .50	.51 TO 1.00	1.01 TO 2.50	2.51 TO 5.00	5.01 TO 10.00	10.01 TO 20.00	OVER 20.00	% DAYS WITH MEAS	TOTAL OBS	MONTHLY AMOUNTS MEAN	GREATEST	LEAST
JAN	27.2	20.5	6.4	15.5	9.6	13.1	6.4	1.1	.1					52.3	761	1.62	4.02	.90
FEB	37.7	19.4	5.2	12.2	7.9	12.1	4.3	1.0	.1					42.8	705	1.57	5.73	.27
MAR	37.9	19.0	6.6	12.4	7.2	11.1	4.6	1.0	.1					43.1	775	1.63	3.22	.34
APR	39.5	19.3	5.0	11.2	7.8	9.8	6.4	.9	.1					41.2	747	1.75	3.52	.18
MAY	40.1	13.3	3.4	13.4	7.1	13.8	5.9	2.5	.5					46.6	775	2.41	5.09	.66
JUN	39.7	11.8	5.4	11.4	9.0	10.4	8.1	3.1	1.1					48.5	720	2.80	5.69	.86
JUL	47.5	13.2	4.5	8.5	4.5	11.1	6.7	2.8	.9	.1				39.3	774	2.81	6.81	.05
AUG	48.0	12.0	4.6	10.6	5.5	8.4	6.3	3.5	1.0					40.0	775	2.56	6.06	.84
SEP	51.1	8.5	5.7	10.4	6.4	9.5	5.9	2.1	.4					40.4	750	2.01	4.22	.34
OCT	52.8	11.4	3.7	9.9	6.6	8.3	4.8	1.9	.5					35.8	774	1.84	5.94	.11
NOV	33.7	17.0	6.0	15.5	8.3	11.5	6.7	1.1	.1					49.3	747	1.87	3.91	.20
DEC	29.9	21.5	5.3	11.3	10.8	13.4	5.6	2.0	.1					48.6	749	2.09	6.66	.17
ANN	40.4	15.6	5.1	11.9	7.8	11.0	6.0	1.9	.4	.0				44.0	90527	24.96		

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

EXTREME VALUES OF PRECIPITATION
(FROM DAILY OBSERVATIONS)

STATION NUMBER: 10687C STATION NAME: GRAFENWOHR AF GER PERIOD OF RECORD: 62-87

24 HOUR AMOUNTS IN INCHES
-M-O-N-T-H-S-

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
62							.32	.30	.29	.15	.20	.69	
63	.62	.19	.42	.46	.66	1.35	1.77	.40	.75	.54	.59	.06	1.77
64	.47	.12	.35	.24	.28	.93	.14	.35	.45	.43	.59	.19	.93
65	.67	.42	.92	.78	.62	1.26	.81	.56	1.09	.11	.93	1.01	1.26
66	.43	.65	.66	.72	.42	1.48	.98	.71	.46	.90	.16	.66	1.48
67	.37	.64	.92	.26	.84	.92	*.21	.64	.92	*.50	.50	.75	.92
68	.42	.24	.29	.66	.54	.43	.44	.86	.68	.32	.35	.31	.86
69	.75	.40	.49	.60	.22	.75	1.94	.53	.57	.14	.56	.28	1.94
70	.58	1.12	.55	.52	.58	.36	.84	.85	.44	.63	.48	.64	1.12
71	.38	.18	.20	.39	1.07	.96	.34	.57	.30	1.22	.43	.25	1.22
72	.22	.16	.29	1.13	.44	1.06	1.37	1.66	.13	.61	.42	.21	1.66
73	.43	.29	.10	.37	.38	.52	.57	.38	.16	.43	.41	.57	.57
74	.46	.46	.19	.26	.42	.48	.35	.55	.74	.63	.43	*.65	.74
75	*.27	.47	.28	.25	.50	1.03	.91	.63	.57	.20	.52	*.20	1.03
76	*.99	.12	.38	.04	.19	.48	.58	.83	.76	.54	.36	*.38	*.99
77	*.45	.44	1.02	.41	.19	.94	.45	1.09	.50	.50	*.43	*.25	1.09
78	*.65	.31	.58	.42	1.56	.42	.65	1.94	.63	.65	*.04	*.43	1.94
79	*1.31	.25	.76	*.44	.26	.67	.39	.40	1.19	.46	*.49	*.46	*1.31
80	*.59	.37	.27	.36	.62	.41	.94	.36	.85	1.10	.23	*.33	1.10
81	*.44	.16	.43	*.44	1.19	.36	2.51	.96	.91	1.00	.41	*.67	2.51
82	*.36	*.32	.40	.42	.28	.45	1.94	.84	1.83	1.26	.37	*.62	1.94
83	*.36	.24	.28	.38	.64	.51	.19	.63	.54	.20	.57	*.43	.64
84	*.47	.85	.11	.73	1.52	1.28	.43	1.19	.64	.21	.53	*.21	1.52
85	*.27	.28	.16	.35	.69	.42	.47	1.02	.50	.04	1.11	*.93	1.11
86	*.44	.41	.52	.33	.90	.44	.68	.63	.38	1.40	.22	*.52	1.40
87	*.76	.28	.90	.55	1.00								
PEAK	.483	.377	.459	.462	.640	.746	.821	.755	.651	.570	.471	.464	1.281
S.D.	.147	.240	.270	.231	.386	.357	.642	.399	.760	.393	.220	.287	.424
TOTAL OBS	761	705	775	747	775	720	774	775	750	774	747	749	9082

NOTE * (BASED ON LESS THAN FULL MONTHS)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

MONTHLY PRECIPITATION
(FROM DAILY OBSERVATIONS)

STATION NUMBER: 10687O STATION NAME: GRAFENWOHR AF GER PERIOD OF RECORD: 62-87

TOTAL MONTHLY PRECIPITATION IN INCHES

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
62							1.82	.89	1.44	.23	.88	2.60	
63	1.55	.36	2.15	1.33	1.75	5.89	5.51	2.29	1.97	1.16	3.25	.17	27.38
64	.96	.57	1.14	1.14	1.31	2.30	.36	1.91	2.09	2.06	2.44	.75	17.03
65	2.75	2.10	3.22	2.82	3.34	4.98	3.17	1.82	4.22	.24	3.64	6.66	38.96
66	1.66	2.11	2.65	3.00	2.04	4.71	4.31	4.32	1.59	2.95	.76	3.67	33.77
67	1.94	2.60	2.67	1.10	3.26	2.92	*.37	1.83	3.95	*1.71	1.23	3.03	*26.61
68	2.07	1.30	1.45	1.59	1.65	2.34	2.20	4.55	3.69	1.83	1.27	1.48	25.42
69	1.84	1.70	1.32	3.10	1.02	2.99	3.54	2.44	.98	.29	2.76	.87	22.85
70	1.63	5.73	2.60	3.52	3.09	1.16	2.75	2.68	1.06	2.25	1.49	1.50	29.46
71	1.13	.91	1.20	1.13	3.41	4.14	.05	1.75	1.24	1.26	1.76	1.10	19.08
72	.90	.33	.59	2.56	2.24	2.77	3.45	2.28	.44	1.04	2.39	.43	19.42
73	1.30	1.91	.40	1.80	1.28	1.74	2.75	1.00	.34	2.21	2.34	2.78	19.85
74	1.68	1.99	.71	1.01	1.90	2.51	3.10	1.12	2.63	4.00	1.85	*4.29	*26.79
75	*1.77	1.21	1.73	1.12	1.21	4.03	2.51	2.93	1.47	1.41	2.00	*.43	*21.82
76	*3.96	.27	.84	.18	1.08	.88	1.97	1.37	1.98	1.71	1.61	*1.81	*17.66
77	*2.04	2.66	2.33	2.61	.66	2.80	1.41	3.67	1.58	1.77	*3.91	*1.28	*26.72
78	*1.98	1.12	2.20	.77	4.81	2.27	3.28	6.06	2.82	1.51	*.20	*2.49	*29.51
79	*3.44	1.26	3.15	*1.46	1.32	2.86	1.60	1.46	3.13	.64	*2.92	*3.11	*26.35
80	*2.21	1.73	1.47	2.01	1.58	3.05	5.49	1.07	1.35	3.19	.78	*1.11	*25.04
81	*1.99	.68	2.22	*1.16	3.44	1.11	6.81	1.85	1.79	5.94	2.07	*2.98	*32.04
82	*1.62	*.48	1.07	.97	1.59	2.17	*1.14	3.42	2.33	3.25	1.24	*3.38	*25.66
83	*2.35	1.44	1.20	2.73	2.70	1.21	.25	2.22	1.66	.82	1.24	*.79	*18.62
84	*2.44	2.74	.34	1.58	4.73	*.24	2.15	4.53	3.27	.61	1.22	*.81	*28.66
85	*1.54	.72	.44	1.27	2.34	2.52	2.75	3.37	1.87	.11	3.80	*1.90	*22.63
86	*4.02	.78	1.79	1.06	5.08	1.59	2.17	3.14	1.40	3.77	1.02	*2.75	*28.57
87	*1.72	1.47	1.92	1.82	3.38								
MEAN	1.618	1.570	1.632	1.749	2.408	2.799	2.814	2.559	2.012	1.844	1.865	2.187	25.322
S.D.	.517	1.154	.858	.864	1.260	1.304	1.648	1.313	1.026	1.428	.893	1.820	7.128
TOTAL OBS	761	705	775	747	775	720	774	775	750	774	747	749	9052

NOTE * (BASED ON LESS THAN FULL MONTHS)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SNOWFALL
FROM SUMMARY OF DAY DATA

STATION NUMBER: 10687 STATION NAME: GRAFENWOHR AF GER PERIOD OF RECORD: 62-87

	AMOUNTS IN INCHES															
MONTH	NONE	TRACE	0.1 TO 0.4	0.5 TO 1.4	1.5 TO 2.4	2.5 TO 3.4	3.5 TO 4.4	4.5 TO 6.4	6.5 TO 10.4	10.5 TO 15.4	15.5 TO 25.4	25.5 TO 50.4	OVER 50.4	% DAYS WITH MEAS AMTS	TOTAL OBS	MONTHLY AMOUNTS MEAN	GREATEST	LEAST
JAN	42.4	22.3	13.9	11.7	4.7	2.6	1.6	.4	.3					35.2	761	5.1	26.8	2.5
FEB	53.2	19.5	11.5	9.8	3.8	1.3	.7	.4						27.5	705	5.0	23.3	TRACE
MAR	67.2	17.2	6.7	5.7	1.9	.4	.3	.4	.3					15.6	775	4.8	17.4	TRACE
APR	81.4	11.5	2.3	3.5	.8	.4	.1							7.1	746	2.1	8.7	TRACE
MAY	97.7	2.2		.1										.1	775	TRACE	.9	.0
JUN	100.0														720	.0	.0	.0
JUL	100.0														775	.0	.0	.0
AUG	100.0														775	.0	.0	.0
SEP	100.0														750	.0	.0	.0
OCT	97.2	1.5	.8	.5										1.3	775	.2	1.8	.0
NOV	70.0	15.5	5.8	6.3	1.5	.8			.1					14.5	747	3.8	13.0	.0
DEC	53.9	20.9	9.6	8.7	4.7	1.5	.4	.7	.4					25.8	749	5.0	32.0	.0
ANN	80.2	9.1	4.2	3.9	1.4	.6	.3	.2	.1					10.6	9053	31.0		

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

EXTREME VALUES OF SNOWFALL
(FROM DAILY OBSERVATIONS)

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AF GER PERIOD OF RECORD: 62-87

24 HOUR AMOUNTS IN INCHES

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
62							.0	.0	.0	.3	.9	5.0	
63	5.6	2.3	1.8	TRACE	.0	.0	.0	.0	.0	.0	TRACE	.9	5.6
64	7.4	2.5	1.0	1.3	.0	.0	.0	.0	.0	.0	1.8	1.9	7.4
65	2.6	4.3	5.5	TRACE	.0	.0	.0	.0	.0	.0	1.8	2.0	5.5
66	1.5	TRACE	3.2	*TRACE	.0	.0	.0	.0	.0	.0	1.0	1.6	3.2
67	4.8	1.3	1.8	1.2	.0	.0	.0	.0	.0	TRACE	.7	2.1	4.8
68	2.7	2.0	1.7	1.2	.0	.0	.0	.0	.0	.0	1.0	2.2	2.7
69	1.8	4.0	.4	1.5	.0	.0	.0	.0	.0	.0	7.3	2.8	7.3
70	5.8	3.3	5.5	4.0	.9	.0	.0	.0	.0	.5	TRACE	6.0	6.0
71	1.1	1.8	2.0	TRACE	.0	.0	.0	.0	.0	.0	1.9	1.5	2.0
72	2.2	.9	1.7	TRACE	.0	.0	.0	.0	.0	.8	1.4	.0	2.2
73	4.2	2.1	.9	.9	.0	.0	.0	.0	.0	TRACE	3.0	5.0	5.0
74	1.0	4.2	1.0	1.7	.0	.0	.0	.0	.0	1.2	.8	*3.2	4.2
75	*1.7	4.7	1.3	.5	.0	.0	.0	.0	.0	.1	2.0	*.4	4.7
76	*1.0	.7	TRACE	.3	.0	.0	.0	.0	.0	.0	2.1	*1.7	2.1
77	*2.6	TRACE	TRACE	2.4	.0	.0	.0	.0	.0	.0	*2.1	*2.2	*2.6
78	*3.5	3.2	4.4	TRACE	.0	.0	.0	.0	.0	.0	*.3	*3.9	4.4
79	*4.4	2.0	2.0	*TRACE	TRACE	.0	.0	.0	.0	.0	*3.0	*2.5	*4.4
80	*2.4	.5	.8	2.5	TRACE	.0	.0	.0	.0	TRACE	1.1	*7.0	*7.0
81	*4.3	2.0	7.7	*2.0	TRACE	.0	.0	.0	.0	.3	3.3	*7.0	7.7
82	*3.1	*1.2	.9	.7	TRACE	.0	.0	.0	.0	.0	1.3	*3.8	*3.8
83	*3.5	5.9	.5	TRACE	.0	.0	.0	.0	.0	.0	.5	*2.6	5.9
84	*3.6	3.5	1.1	3.2	TRACE	.0	.0	.0	.0	.0	.2	*.5	*3.6
85	*2.4	5.2	1.0	3.1	TRACE	.0	.0	.0	.0	.0	3.4	*7.0	*7.0
86	*3.8	*.4	.1	.1	.0	.0	.0	.0	.0	TRACE	.0	*4.6	*4.6
87	*7.5	2.0	6.6	TRACE	.0								
MEAN	3.39	2.62	2.12	1.12	.04	.00	.00	.00	.00	.13	1.61	2.58	*.85
S.D.	2.110	1.654	2.139	1.229	.180	.000	.000	.000	.000	.296	1.619	1.815	1.961
TOTAL OBS	761	705	775	746	775	720	775	775	750	775	747	749	9053

NOTE * (BASED ON LESS THAN FULL MONTHS)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

MONTHLY SNOWFALL
(FROM DAILY OBSERVATIONS)

STATION NUMBER: 16687C STATION NAME: GRAFENWOHR AF GER PERIOD OF RECORD: 62-87

TOTAL MONTHLY SNOWFALL IN INCHES

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
62							.0	.0	.0	.3	3.4	15.6	
63	15.4	5.0	2.5	TRACE	.0	.0	.0	.0	.0	.0	TRACE	3.1	26.0
64	12.5	4.5	1.8	1.3	.0	.0	.0	.0	.0	.0	3.3	6.4	29.8
65	17.4	23.3	15.5	TRACE	.0	.0	.0	.0	.0	.0	6.1	6.8	69.1
66	4.1	TRACE	13.9	*TRACE	.0	.0	.0	.0	.0	.0	3.6	5.9	*27.5
67	10.7	2.8	4.9	2.5	.0	.0	.0	.0	.0	TRACE	1.1	5.8	31.8
68	13.7	4.9	4.7	1.2	.0	.0	.0	.0	.0	.0	1.1	11.0	36.6
69	4.1	18.2	.7	2.5	.0	.0	.0	.0	.0	.0	9.6	5.5	39.6
70	12.2	18.9	17.4	8.7	.9	.0	.0	.0	.0	.5	TRACE	7.2	65.8
71	2.5	8.0	8.2	TRACE	.0	.0	.0	.0	.0	.0	4.1	3.1	25.9
72	8.3	1.3	1.8	TRACE	.0	.0	.0	.0	.0	1.0	6.8	.0	19.2
73	10.5	11.4	2.2	3.4	.0	.0	.0	.0	.0	TRACE	6.8	18.5	52.8
74	2.9	10.4	1.1	1.7	.0	.0	.0	.0	.0	1.8	1.5	*10.7	*30.1
75	*3.5	6.3	5.8	1.4	.0	.0	.0	.0	.0	.1	6.4	*1.5	*24.0
76	*2.9	1.1	TRACE	.5	.0	.0	.0	.0	.0	.0	4.1	*9.0	*17.6
77	*14.0	TRACE	TRACE	5.0	.0	.0	.0	.0	.0	.0	*7.0	*6.0	*32.0
78	*16.1	10.2	7.7	TRACE	.0	.0	.0	.0	.0	.0	*.3	*7.0	*41.3
79	*24.4	8.5	*.5	*TRACE	TRACE	.0	.0	.0	.0	.0	*8.2	*6.1	*49.7
80	*13.4	2.3	1.2	8.4	TRACE	.0	.0	.0	.0	TRACE	2.5	*15.2	*43.0
81	*24.1	6.2	11.2	*2.0	TRACE	.0	.0	.0	.0	.5	7.8	*32.0	*83.8
82	*5.9	*1.2	.9	1.1	TRACE	.0	.0	.0	.0	.0	1.3	*4.0	*23.4
83	*10.5	15.5	1.0	TRACE	.0	.0	.0	.0	.0	.0	.9	*3.3	*31.2
84	*28.8	13.6	1.5	6.3	TRACE	.0	.0	.0	.0	.0	.3	*1.2	*51.6
85	*9.6	9.9	1.6	3.1	TRACE	.0	.0	.0	.0	.0	13.0	*7.5	*44.7
86	*18.0	10.2	.1	.1	.0	.0	.0	.0	.0	TRACE	.0	*16.9	*45.3
87	*23.9	3.4	10.7	TRACE	.0								
MEAN	9.11	8.00	4.84	2.15	.04	.00	.00	.00	.00	.17	3.80	7.99	39.16
S.D.	4.573	6.072	5.185	2.697	.180	.000	.000	.000	.000	.415	3.501	5.236	16.376
TOTAL OBS	761	705	775	746	775	720	775	775	750	775	747	749	9053

NOTE * (BASED ON LESS THAN FULL MONTHS)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SNOW DEPTH
FROM SUMMARY OF DAY DATA

STATION NUMBER: 1C687C STATION NAME: GRAFENWOHR AF GER PERIOD OF RECORD: 62-87

AMOUNTS IN INCHES

MONTH	NONE	TRACE	1	2	3	4 TO 6	7 TO 12	13 TO 24	25 TO 36	37 TO 48	49 TO 60	61 TO 120	OVER 120	% DAYS WITH MEAS AMTS	TOTAL OBS	MONTHLY AMOUNTS MEAN	GREATEST	LEAST
JAN	24.9	7.8	4.0	9.2	7.4	28.2	18.4	.1						67.3	730			
FEB	35.2	13.6	8.4	7.0	4.7	18.9	11.4	.7						51.2	676			
MAR	78.0	9.5	2.0	1.5	1.2	3.9	3.1	.4						12.1	744			
APR	97.1	2.0	.4		.4									.9	687			
MAY	100.0														713			
JUN	100.0														660			
JUL	100.0														713			
AUG	100.0														713			
SEP	100.0														690			
OCT	99.7	.3		.1										.1	713			
NOV	84.4	8.3	3.3	1.3	1.2	1.3	.1							7.3	687			
DEC	44.0	17.6	7.9	9.2	5.2	10.2	5.1	.9						38.4	687			
ANN	80.3	4.9	2.2	2.4	1.7	5.2	3.2	.2						14.8	8413			

GLOBAL CLIMATOLOGY BRANCH
LSAFETAC
AIR WEATHER SERVICE/MAC

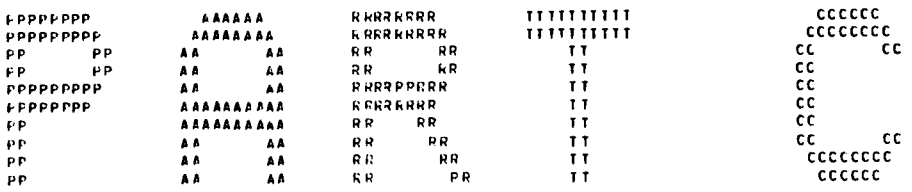
EXTREME VALUES OF SNOW DEPTH
(FROM DAILY OBSERVATIONS)

STATION NUMBER: 10687C STATION NAME: GRAFENWOHR AF GFP PERIOD OF RECORD: 62-87

DAILY SNOW DEPTH IN INCHES
-M-O-N-T-H-S-

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
62							0	0	0	0	2	6	
63	11	13	10	0	0	0	0	0	0	0	0	2	13
64	9	5	0	0	0	0	0	0	0	0	TRACE	5	9
65	3	7											
66			1										
67	10	1	0	0	0	0	0	0	0	0	0	5	10
68	8	3	4	0	0	0	0	0	0	0	1	5	8
69	6	*8	0	0	0	0	0	0	0	0	6	7	*8
70	12	9	13	0	0	0	0	0	0	0	0	6	13
71	5	1	8	0	0	0	0	0	0	0	2	2	8
72	4	4	TRACE	0	0	0	0	0	0	TRACE	2	0	4
73	5	3	3	1	0	0	0	0	0	0	6	5	6
74	3	2	TRACE	0	0	0	0	0	0	0	0	*5	*5
75	*2	4	TRACE	TRACE	0	0	0	0	0	0	1	*TRACE	4
76	*TRACE	2	TRACE	TRACE	0	0	0	0	0	0	TRACE	*4	*4
77	*9	TRACE	TRACE	TRACE	0	0	0	0	0	0	*1	*2	*9
78	*6	9	3	0	0	0	0	0	0	0	*TRACE	*4	9
79	*13	9	1	*0	0	0	0	0	0	0	*2	*4	*13
80	*12	3	TRACE	3	0	0	0	0	0	0	1	*8	*12
81	*10	10	8	*TRACE	0	0	0	0	0	2	3	*14	*14
82	*7	*1	0	0	0	0	0	0	0	0	TRACE	*4	*7
83	*3	7	1	0	0	0	0	0	0	0	1	*4	7
84	*7	6	1	3	0	0	0	0	0	0	TRACE	*TRACE	*7
85	*7	6	2	1	0	0	0	0	0	0	7	*9	*9
86	*8	7	4	TRACE	0	0	0	0	0	0	0	*7	*8
87	*10	7	8	0	0								
MEAN	6.9	5.4	2.8	.4	.0	.0	.0	.0	.0	.1	1.6	2.3	8.9
S.D.	3.239	3.388	3.799	.921	.000	.000	.000	.000	.000	.417	2.234	2.214	3.137
TOTAL OBS	730	676	744	687	713	660	713	713	690	713	687	687	8913

NOTE * (BASED ON LESS THAN FULL MONTHS)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SURFACE WIND SUMMARIES

EXTREME VALUES OF PEAK WINDS

DATA DERIVED FROM SUMMARY OF DAY DATA.

VALUES PRESENTED BY INDIVIDUAL MONTH AND YEAR WITH ALL YEARS COMBINED.

SPEEDS PRESENTED IN KNOTS.

DIRECTIONS PRESENTED IN 16 COMPASS POINTS FROM BEGINNING OF PERIOD OF RECORD THROUGH JUNE 1968. COMMENCING JULY 1968 DIRECTIONS PRESENTED IN TENS OF DEGREES.

AN ASTERISK "*" IN THE TABLES INDICATES THAT THE VALUE IS BASED ON AN INCOMPLETE MONTH OF THREE OR MORE MISSING DAYS.

MEANS AND STANDARD DEVIATIONS PRESENTED DO NOT INCLUDE INCOMPLETE MONTHS. FOUR OR MORE MONTHS ARE NEEDED TO COMPUTE THESE STATISTICS AND INCOMPLETE MONTHS ARE NOT INCLUDED.

TABLES ALSO INCLUDE THE OBSERVATION COUNTS.

BIVARIATE PERCENTAGE FREQUENCY TABULATIONS OF SURFACE WINDS

DATA DERIVED FROM HOURLY DATA.

PRESENTED ARE THE PERCENTAGE FREQUENCY OF WIND DIRECTION TO 16 COMPASS POINTS, CALM AND VARIABLE VERSUS WIND SPEED IN KNOTS IN INCREMENTS OF BEAUFORT CLASSIFICATIONS.

PERCENTAGES ARE SHOWN BY BOTH DIRECTIONS AND SPEED, AND IN ADDITION THE MEAN WIND SPEED IN GIVEN FOR EACH DIRECTION.

DATA PRESENTED BY THE STANDARD 3-HOUR TIME GROUPS BY MONTH, MONTHLY AND ANNUALLY (ALL YEARS COMBINED)..

A SEPARATE ANNUAL TABLE PRESENTS THE SAME BIVARIATE DISTRIBUTIONS WITH IMPOSED CEILING/VISIBILITY LIMITATIONS: WHEN VISIBILITIS EQUAL TO OR GREATER THAN 1/2 MILES, THE CEILINGS ARE 200 TO 1400 FEET AND/OR WHEN THE CEILING IS EQUAL TO OR GREATER THAN 200 FEET, THE VISIBILITIES ARE 1/2 THROUGH 2 1/2 MILES.

A PERCENTAGE VALUE OF ".0" IN THESE TABLES INDICATES ONE OR MORE OCCURRENCES AMOUNTING TO LESS THAN .05%.

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

EXTREME VALUES OF SURFACE WINDS
(FROM DAILY OBSERVATIONS)

STATION NUMBER: 10687C STATION NAME: GRAFENWOHR AF GER PERIOD OF RECORD: 62-87

DAILY PEAK GUSTS IN KNOTS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
62							WSW 32	W 32	W 37	E 25	E *25	WSW 29	
63	E 46	ENE 20	WSW 30	E 35	SE 30	WNW 43	W 35	W *30	WNW 41	WNW 30	W 34	E 29	E 46
64	E *16	NW *33	ENE 31	WNW 35	NNW 50	WNW *32	W 29	NW *30	WNW *36	ESE 37	WNW 46	NE 30	NNW 50
65	SSW 37	WNW 45	W 31	W 29	SW 39	SW 33	W 38	W 32	E 30	ENE 26	W *39	WNW *56	WNW *56
66	W 45	WSW 28	WSW 41	W 33	WNW 33	W *30	SSW 31	W 29	WSW 26	SW 28	SSE 36	SW 42	W 45
67	WNW 30	NW 67	NNW 58	W 36	WSW 42	WSW 41	WNW 58	WNW 37	WNW 31	WSW 36	W 20	W 30	NW 67
68	NNW 34	WSW 17	W 40	W 30	W 36	W 30	27/ 39	29/ 23	25/ 25	27/ 21	29/ 21	9/ 26	W 40
69	29/ 22	29/ 28	24/ 25	29/ 40	24/ 34	25/ 27	32/ 41	28/ 33	28/ 23	30/ 39	27/ 40	11/ 23	32/ 41
70	30/ 24	25/ 34	24/ 34	27/ 34	31/ 26	34/ 30	30/ 24	28/ 18	29/ 28	28/ 31	27/ 39	30/ 40	30/ 40
71	27/ 30	29/ 25	28/ 36	28/ 28	8/ 21	32/ 28	31/ 16	28/ 30	29/ 15	28/ 26	23/ 43	9/ 33	23/ 43
72	10/ 27	9/ 16	27/ 42	27/ 26	29/ 30	24/ 28	29/ 19	31/ 26	27/ 29	28/ 21	30/ 48	11/ 23	30/ 48
73	29/ 17	29/ 26	3/ 19	28/ 34	31/ 28	27* 28	29* 27	32/ 20	29/ 29	28/ 28	27/ 39	29/ 36	27/ 39
74	25/ 32	26/ 42	27/ 25	28/ 23	29/ 34	31/ 26	31/ 32	28/ 25	27/ 25	25/ 20	24/ 40	28/ 42	26/ 42
75	28/ 26	9/ 22	9/ 32	29/ 26	5/ 23	29/ 26	27/ 26	12* 35	27/ 32	11/ 31	28/ 34	27/ 24	12* 35
76	28/ 42	10/ 26	8/ 24	31/ 23	27/ 31	32/ 28	30/ 28	36/ 21	27/ 29	26/ 18	28/ 24	21/ 28	28/ 42
77	28/ 21	28/ 26	31/ 30	29/ 40	15/ 22	25/ 24	32* 26	28* 20	29/ 28	32/ 35	26/ 42	28* 36	26/ 42
78	27/ 35	8/ 19	29/ 32	13/ 20	18/ 25	24/ 30	32* 28	33/ 28	32/ 34	31/ 23	33/ 17	29* 33	27/ 35
79	29/ 28	7/ 27	28/ 43	17* 27	27/ 40	21/ 25	33/ 36	25/ 23	27/ 30	31/ 44	29/ 30	27/ 35	31/ 44
80	31/ 22	28/ 29	32/ 28	27/ 34	9/ 23	28/ 27	17/ 25	27/ 33	26/ 30	33/ 23	27/ 28	26* 21	27/ 34
81	30/ 36	27/ 27	27/ 26	27/ 20	24/ 21	29/ 29	30/ 27	11/ 33	29/ 21	29/ 38	29/ 28	25/ 30	29/ 38
82	23/ 26	29/ 19	22/ 33	27/ 32	31/ 22	25/ 24	28/ 31	29/ 28	29/ 25	19/ 26	25/ 25	27* 35	27* 35
83	30/ 40	25/ 33	30/ 30	27/ 33	28/ 25	31/ 21	31/ 29	29/ 22	27/ 25	28/ 29	27/ 32	29* 26	30/ 40
84	29/ 34	25/ 31	29/ 22	32/ 22	26/ 28	26/ 27	30/ 31	28/ 15	25/ 23	26/ 22	26/ 56	32* 24	26/ 56
85	27/ 27	28/ 32	23/ 27	27/ 31	27/ 30	27/ 30	29/ 25	29/ 40	24/ 26	27/ 25	28/ 34	28/ 27	29/ 40
86	28/ 48	9/ 27	27/ 33	26/ 24	27/ 24	27/ 22	30/ 27	27/ 22	27/ 22	27/ 43	32/ 21	29/ 58	29/ 58
87	28/ 38	30/ 24	29/ 24	29/ 22	30/ 31								
MEAN	32.0	28.8	31.8	29.6	29.9	28.5	31.0	27.1	27.7	29.0	33.8	32.5	45.4
S.D.	8.431	10.727	8.290	6.086	7.365	5.326	8.432	6.475	5.403	7.280	9.977	8.726	9.069
TOTAL OBS	752	697	771	743	769	701	743	751	741	764	731	728	8891

NOTES * (BASED ON LESS THAN FULL MONTHS)
$ (BASED ON LESS THAN FULL MONTHS AND *100 KNOTS)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER PERIOD OF RECORD: 78-87
MONTH: JAN HOURS(LST): 0000-0200

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.2	.3										.6	3.4
NNE	.2	.1										.3	2.7
NE	.2	.3	.2									.8	4.4
ENE	1.6	1.7	.9	.1								4.4	4.7
E	3.7	3.1	.5									7.3	3.5
ESE	3.0	1.5	.1									4.6	3.0
SE	1.9	.2										2.1	2.6
SSE	1.0	.3										1.4	2.8
S	1.9	.8										2.7	2.8
SSW	.8	1.3	.2									2.3	4.1
SW	.7	1.2	.7									2.6	4.8
WSW	1.3	2.1	1.6	.1								5.1	5.5
W	2.8	4.3	5.7	.9	.1							13.8	6.5
WNW	.8	1.4	2.1	.7	.1							5.1	7.2
NW	.7	1.0	.3	.1								2.2	4.9
NNW	.7	.2	.3									1.3	4.5
VARIABLE			3.8	2.4	.5							6.7	10.9
CALM	////	////	////	////	////	////	////	////	////	////	////	36.7	////
TOTALS	21.6	20.1	16.6	4.4	.7							100.0	3.5

TOTAL NUMBER OF OBSERVATIONS: 802

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 7A-87
MONTH: JAN HOURS(LST): 0300-0500

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N		.3										.3	4.3
NNE	.7	.1										.8	2.1
NE	.1	.5	.1	.2								.9	6.5
ENE	1.4	2.4	.7									4.5	4.4
E	4.0	2.6	.3									7.0	3.4
ESE	3.0	.7										3.7	2.6
SE	1.7	.7										2.4	2.7
SSE	1.5	.6	.1									2.2	3.1
S	1.5	1.5	.3									3.3	3.8
SSW	.6	.7	.2									1.5	4.5
SW	.6	1.1										1.7	3.9
WSW	1.4	1.7	1.4									4.5	5.0
W	3.4	5.4	5.1	1.6								15.5	6.4
WNW	.5	.6	1.5	.7								3.2	7.9
NW	.9	1.3	.9									3.1	5.0
NNW	.6	.3		.5								1.4	6.4
VARIABLE			3.4	1.8	.2							5.5	10.7
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	38.5	//////
TOTALS	21.8	20.6	14.1	4.8	.2							100.0	3.3

TOTAL NUMBER OF OBSERVATIONS: 871

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: JAN HOURS(LST): 0600-0800

DIRECTION (DEGREES)	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
	WIND SPEED IN KNOTS												
N	.6	.6										1.1	3.6
NNE													
NE	.6	.6	.2	.2								1.6	5.1
ENE	1.2	1.6	1.0									3.9	4.7
E	3.1	3.7	.2	.1								7.1	3.7
ESE	4.0	.5										4.4	2.0
SE	2.6	1.0										3.6	2.5
SSE	2.5	.7	.1									3.3	2.9
S	1.2	2.3	.1									3.6	3.9
SSW	1.0	.6		.1								1.7	3.7
SW	.8	.8	.2									1.8	4.0
WSW	1.7	2.5	1.0	.2								5.4	5.1
W	2.5	4.0	4.3	1.9								12.7	6.8
WNW	.9	2.2	1.8	1.1								6.0	7.0
NW	.9	.7	.7	.2								2.5	5.6
NNW	.9	.1	.2	.1								1.4	4.2
VARIABLE			2.8	2.9								5.8	10.7
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	34.1	//////
TOTALS	24.5	21.6	12.8	7.0								100.0	3.5

TOTAL NUMBER OF OBSERVATIONS: 883

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 1[illegible]6870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: JAN HOURS(LST): 0900-1100

DIRECTION (DEGREES)	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
	WIND SPEED IN KNOTS												
N	.2	[illegible]	.1									.7	4.2
NNE	.1	.2										.3	3.3
NE	.3	.7	.1									1.1	4.0
ENE	.8	1.8	.4									3.0	4.6
E	3.6	3.9	.9									8.4	4.0
ESE	4.6	1.2										5.8	2.4
SE	2.4	1.7		.1								4.2	3.4
SSE	1.1	1.0										2.1	3.3
S	1.5	3.5	.1									5.1	4.1
SSW	1.2	.9	.7									2.6	4.6
SW	1.0	.7	.2	.2								2.1	4.7
WSW	.9	3.1	1.0	.3								5.4	5.7
W	2.4	4.0	4.6	2.2								13.3	7.1
WNW	1.2	1.6	2.7	.9	.2							6.6	7.4
NW	1.1	.9	.9	.1								3.0	5.4
NNW	.3	.2	.6									1.1	5.3
VARIABLE			4.6	2.2	.1							[illegible]	10.[illegible]
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	27.8	//////
TOTALS	22.8	25.9	17.0	6.2	.3							100.0	4.0

TOTAL NUMBER OF OBSERVATIONS: 869

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106872 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: JAN HOURS(LST): 1200-1400

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.3	.2	.1									.8	3.4
NNE	.2		.2									.4	5.5
NE	1.0	.9	.2									2.1	4.0
ENE	1.2	3.1	.9	.1								5.4	5.0
E	1.8	2.6	1.2									5.6	4.9
ESE	3.4	2.0	.3									5.7	3.2
SE	4.0	1.8	.2									6.1	3.0
SSE	1.7	1.9	.2									3.8	3.7
S	1.5	2.5	.4									4.4	4.4
SSW	.8	2.5	.4									3.7	4.8
SW	.5	1.2	1.1									2.1	5.3
WSW	1.6	1.2	2.5	.4								5.7	6.4
W	1.5	4.6	4.3	2.5								12.8	7.4
WNW	1.1	1.2	3.3	1.7	.1							7.4	6.1
NW	1.2	1.0	2.5	.4								6.2	6.5
NNW	.2	.8	.6	.1								1.7	6.1
VARIABLE		.1	7.1	2.4								9.5	5.8
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	15.5	//////
TOTALS	22.3	29.8	25.6	7.6	.1							100.0	5.1

TOTAL NUMBER OF OBSERVATIONS: 891

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: JAN HOURS(LST): 1500-1700

DIRECTION (DEGREES)	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.3	.3	.3									1.0	5.4
NNE	.2	.1										.3	2.3
NE	.7	.9	.2									1.8	4.2
ENE	1.2	2.7	1.1									5.1	5.0
E	3.9	2.7	.7									7.3	3.8
ESE	3.9	1.7	.1									5.6	2.7
SE	2.9	.9										3.7	2.6
SSE	1.9	1.0										2.9	2.7
S	2.7	2.0	.8									5.5	3.8
SSW	1.7	.8	.2									2.7	3.5
SW	.6	1.2	.3	.1								2.2	5.0
WSW	1.5	2.4	1.2	.2								5.3	5.4
W	1.6	7.2	5.7	1.8								16.3	6.8
WNW	1.0	2.0	2.2	.2								5.5	6.4
NW	1.9	1.6	1.3	.2								5.1	5.1
NNW	.6	1.3	.3									2.2	4.5
VARIABLE		.2	5.1	1.6	.1							7.0	9.5
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	20.5	//////
TOTALS	26.4	29.1	19.8	4.2	.1							100.0	4.2

TOTAL NUMBER OF OBSERVATIONS: 891

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR PERIOD OF RECORD: 78-87
MONTH: JAN HOURS(LST): 1800-2000

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.2		.3									.6	6.8
NNE	.1											.1	2.0
NE	1.0	.8										1.8	3.1
ENE	1.0	2.0	1.0	.1								4.2	5.3
E	3.6	3.5	.1	.1								7.3	3.9
ESE	3.3	1.0										4.3	2.6
SE	1.2	1.2	.1									2.6	3.6
SSE	1.5	.4										1.9	2.8
S	1.7	1.8	.1									3.6	3.6
SSW	.6	.9	.6									2.0	5.1
SW	.7	1.6	.4									2.7	4.7
WSW	1.1	2.4	.7									4.2	4.9
W	2.1	7.2	4.4	2.2								15.9	6.7
WNW	1.0	2.0	1.5	.2								4.7	5.7
NW	1.5	.9	.9	.1								3.4	5.2
NNW	.2	.3	.1									.7	4.0
VARIABLE			3.6	1.3	.2	.1						5.3	10.3
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	34.9	//////
TOTALS	20.8	26.0	13.8	4.2	.2	.1						100.0	3.5

TOTAL NUMBER OF OBSERVATIONS: 891

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10687O STATION NAME: GRAFENWOHR AAF GER PERIOD OF RECORD: 78-87
MONTH: JAN HOURS(LST): 2100-2300

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.5	.3	.2									1.0	4.7
NNE													
NE	.9	.1										1.0	2.6
ENE	1.7	1.8	.2	.2								4.0	4.4
E	3.4	3.6	.8	.2								8.0	4.2
ESE	3.5	1.2	.2									5.0	2.9
SE	2.0	.7	.1									2.8	2.7
SSE	1.1	.7										1.8	3.1
S	1.6	1.9										3.5	3.5
SSW	1.5	1.1	.7									3.3	4.3
SW	1.6	1.0	.1									2.7	3.5
WSW	1.5	1.0	1.7	.2								4.4	5.7
W	2.7	4.1	5.1	1.9	.1							13.9	7.0
WNW	1.1	2.0	1.7	.5	.1							5.4	6.3
NW	1.7	.9	.7									3.3	4.1
NNW			.1									.1	9.0
VARIABLE			3.6	1.9								5.5	10.1
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	34.2	//////
TOTALS	24.7	20.6	15.3	5.0	.2							100.0	3.5

TOTAL NUMBER OF OBSERVATIONS: 865

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER PERIOD OF RECORD: 78-87
MONTH: JAN HOURS(LST): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.3	.3	.1									.8	4.4
NNE	.2	.1	.0									.3	3.0
NE	.6	.6	.1	.1								1.4	4.1
ENE	1.3	2.2	.8	.1								4.3	4.8
E	3.4	3.2	.6	.1								7.3	3.9
ESE	3.6	1.2	.1									4.9	2.7
SE	2.3	1.0	.1	.0								3.4	2.9
SSE	1.5	.8	.1									2.4	3.1
S	1.7	2.0	.2									4.0	3.8
SSW	1.0	1.1	.4	.0								2.5	4.3
SW	.8	1.1	.4	.0								2.4	4.5
WSW	1.4	2.1	1.4	.2								5.0	5.5
W	2.4	5.1	4.9	1.9	.0							14.3	6.8
WNW	1.0	1.6	2.1	.8	.1							5.5	7.0
NW	1.2	1.2	1.0	.2								3.6	5.3
NNW	.4	.4	.3	.1								1.2	5.1
VARIABLE		.0	4.3	2.1	.1	.0						6.5	10.2
CALM	//////////											30.2	//////
TOTALS	23.1	24.1	16.9	5.4	.2	.0						100.0	3.8

TOTAL NUMBER OF OBSERVATIONS: 7063

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: FEB HOURS(LST): 0000-0200

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.5	.4	.1									.9	3.9
NNE	.7	.6										1.3	3.3
NE	1.5	1.3	.2									3.1	3.5
ENE	2.5	2.8	.5									5.8	3.9
E	4.6	5.3	1.1	.1								11.1	4.1
ESE	3.3	.5	.5									4.3	2.8
SE	.7	.5										1.2	3.0
SSE	1.1											1.1	1.7
S	.2	1.1	.1									1.4	4.8
SSW	.5		.4									.8	4.4
SW	.6		.1									.7	3.0
WSW	1.2	.6	.7									2.5	4.5
W	1.9	3.0	1.7	.1								6.6	5.2
WNW	.6	.6	.4	.1								1.7	5.0
NW	.6	.7	.1	.2								1.7	5.0
NNW	.7	.2										.9	2.4
VARIABLE			1.8	1.2	.1							3.1	10.3
CALM	//////////											51.9	//////
TOTALS	21.2	17.5	7.6	1.8	.1							100.0	2.1

TOTAL NUMBER OF OBSERVATIONS: 846

GLOBAL CLIMATOLOGY BRANCH — PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
USAFETAC — FROM HOURLY OBSERVATIONS
AIR WEATHER SERVICE/MAC

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER — PERIOD OF RECORD: 78-87
MONTH: FEB HOURS(LST): 0300-0500

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	1.1	1.1										2.1	3.6
NNE	.5	.1										.6	2.0
NE	2.1	.7										2.8	3.0
ENE	2.8	2.4	.5									5.7	3.6
E	5.3	4.6	.9	.1								11.0	3.9
ESE	2.8	1.1	.1									4.0	2.8
SE	1.3											1.3	1.4
SSE	.6	.2										.8	2.6
S	.5	.5										.9	3.3
SSW	.4	.2										.6	3.2
SW	.5	.6	.1									1.2	4.4
WSW	1.3	.9	.6									2.8	4.2
W	1.8	2.4	1.8	.1								6.0	5.2
WNW	.7	.2	.4									1.3	4.1
NW	1.3	.2	.1									1.7	3.1
NNW	.8	.4										1.2	2.7
VARIABLE			2.4	1.3								3.7	9.9
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	52.2	//////
TOTALS	23.9	15.6	6.9	1.5								100.0	2.0

TOTAL NUMBER OF OBSERVATIONS: 846

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10687Q STATION NAME: GRAFENWOHR AAF GER PERIOD OF RECORD: 78-87
MONTH: FEB HOURS(LST): 0600-0800

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.5	.6										1.1	3.4
NNE	.4											.4	1.7
NE	1.5	.5										2.0	2.9
ENE	2.6	2.2	1.1									5.9	4.4
E	5.7	4.3	1.1	.1								11.1	3.9
ESE	4.6	1.3										5.9	2.5
SE	2.1	.2										2.4	2.0
SSE	.8											.8	2.0
S	.8	.4	.2									1.4	4.0
SSW	.8	.1										.9	2.4
SW	.5	.1	.2									.8	4.0
WSW	1.1	1.3	.7									3.1	4.7
W	1.3	2.7	1.5	.5								6.0	5.8
WNW	1.2	.5	.5	.2								2.4	4.9
NW	1.1	1.2	.1									2.4	3.7
NNW	1.2	.4	.1									1.7	2.9
VARIABLE			2.0	.7								2.7	10.2
CALM	//////////											49.1	//////
TOTALS	26.1	15.7	7.6	1.5								100.0	2.1

TOTAL NUMBER OF OBSERVATIONS: 846

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: FEB HOURS(LST): 0900-1100

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.5	.6										1.1	4.0
NNE	1.1	.2	.1									1.4	2.7
NE	1.1	1.5	.1									2.7	3.8
ENE	1.4	4.0	.7	.1								6.3	4.8
E	3.7	6.3	2.0									11.9	4.8
ESE	6.6	.9	.1									7.7	2.2
SE	3.5	.8										4.4	2.4
SSE	.9	.1										1.1	2.4
S	1.5	1.3	.1									3.0	3.6
SSW	.6	.2	.1									.9	3.6
SW	.4	.4										.7	3.7
WSW	.7	1.7	.5									2.8	4.8
W	2.5	3.4	3.2	.5								9.6	5.7
WNW	.9	.9	1.1	.4								3.3	5.9
NW	.9	.9	.1									2.0	3.9
NNW	.4	.9	.1									1.4	4.3
VARIABLE			4.1	.5								4.6	8.6
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	35.1	//////
TOTALS	26.7	24.3	12.4	1.4								100.0	2.9

TOTAL NUMBER OF OBSERVATIONS: 846

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 78-87
MONTH: FEB HOURS(LST): 1200-1400

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.1	1.2	.1									1.4	5.2
NNE	.8	.6	.1									1.5	3.8
NE	2.4	1.9	.4									4.6	3.6
ENE	2.1	3.7	1.1	.1								7.0	4.8
E	2.0	7.1	2.1	.2								11.5	5.3
ESE	6.0	4.5	.5									11.0	3.6
SE	4.1	2.2	.7									7.1	3.5
SSE	1.5	1.1	.2									2.8	3.8
S	2.1	2.0	.5									4.6	3.8
SSW	1.5	.4										1.9	2.6
SW	.4	.5	.1									.9	4.5
WSW	.7	1.2	.4									2.2	4.7
W	1.5	4.1	2.8	.6								9.1	6.3
WNW	1.3	1.5	1.3	.2								4.4	5.9
NW	1.9	1.4	.6	.8								4.7	5.6
NNW	.5	.9	.4	.1								1.9	5.0
VARIABLE			7.1	1.3								8.4	9.0
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	14.9	//////
TOTALS	29.1	34.3	18.3	3.4								100.0	4.3

TOTAL NUMBER OF OBSERVATIONS: 846

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106873 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: FEB HOURS(LST): 1500-1700

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	1.3	.8	.1									2.2	3.5
NNE	1.3	.6	.1									2.0	3.0
NE	3.0	2.0										5.0	3.2
ENE	2.5	4.8	1.4									8.7	4.7
E	3.9	7.7	1.4	.4								13.4	4.9
ESE	3.7	4.3	.1									8.0	3.4
SE	3.3	2.4	.2									5.9	3.3
SSE	1.2	.7	.4									2.2	4.0
S	2.2	1.2	.5									3.9	3.7
SSW	1.1	.6										1.7	2.9
SW	.7	1.2										1.9	3.7
WSW	1.3	1.4	.6									3.3	4.4
W	1.3	2.8	2.1	.4	.1							6.7	6.3
WNW	.9	2.5	.9	.6								5.0	5.8
NW	1.8	2.0	.7	.2	.1							4.8	5.0
NNW	2.2	1.2	.4									3.8	3.6
VARIABLE		.2	3.5	1.7	.1							5.6	9.5
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	15.8	//////
TOTALS	31.7	36.4	12.5	3.2	.4							100.0	[illegible].9

TOTAL NUMBER OF OBSERVATIONS: 846

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: FEB HOURS(LST): 1800-2000

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	1.4	.6	.1									2.1	2.8
NNE	1.1	.1										1.2	2.4
NE	3.2	.4										3.5	2.1
ENE	3.4	2.7	.7									6.9	3.9
E	7.1	7.9	.7	.1								15.8	3.9
ESE	2.4	1.7	.1									4.1	3.3
SE	.9	.6	.1									1.7	3.4
SSE	.6	.1										.7	2.5
S	.4	.6	.2	.1								1.3	4.9
SSW	.2	.4										.6	3.6
SW	1.1	.2	.1									1.4	3.0
WSW	.9	.8	.4									2.0	4.2
W	2.4	3.1	1.4	.2	.2							7.3	5.4
WNW	.9	.9	.5	.1								2.5	4.9
NW	1.3	.9	.2	.1								2.6	4.0
NNW	2.9	.4	.2									3.4	2.6
VARIABLE			2.5	.4								2.9	9.0
CALM	//////////											40.0	//////
TOTALS	30.0	21.4	7.3	1.1	.2							100.0	2.4

TOTAL NUMBER OF OBSERVATIONS: 946

GLOBAL CLIMATOLOGY BRANCH — PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
USAFETAC — FROM HOURLY OBSERVATIONS
AIR WEATHER SERVICE/MAC

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR — PERIOD OF RECORD: 78-87
MONTH: FEB HOURS(LST): 2100-2300

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	1.2	.7										1.9	3.1
NNE	.7	.5										1.2	3.0
NE	1.5	1.3	.2									3.1	3.7
ENE	2.7	3.1	.2	.2								6.3	4.2
E	6.3	7.0	1.1									14.3	3.9
ESE	3.4	1.2										4.6	2.5
SE	1.1	.2										1.3	2.4
SSE	.5	.4										.8	2.9
S	.2	.2	.1									.6	4.4
SSW	.2	.6	.1									.9	4.4
SW	.4		.1									.5	3.5
WSW	1.3	1.3	.4									3.0	4.1
W	2.0	2.8	1.2	.5								6.5	4.4
WNW	.6	1.2	.4	.1								2.2	5.2
NW	1.1	.2	.1	.2								1.7	4.2
NNW	.6	.6		.1								1.3	3.8
VARIABLE			1.5	.								2.2	9.7
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	47.6	//////
TOTALS	23.9	21.3	5.4	1.4								100.0	2.2

TOTAL NUMBER OF OBSERVATIONS: 846

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: FEB HOURS(LST): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.8	.7	.1									1.6	3.6
NNE	.8	.3	.0									1.2	2.9
NE	2.0	1.2	.1									3.4	3.2
ENE	2.5	3.2	.8	.1								6.6	4.3
E	4.8	6.7	1.3	.1								12.5	4.3
ESE	4.1	1.9	.2									6.2	3.0
SE	2.1	.9	.1									3.1	2.9
SSE	.9	.3	.1									1.3	3.1
S	1.0	.9	.2	.0								2.1	3.9
SSW	.7	.3	.1									1.0	3.2
SW	.5	.4	.1									1.0	3.7
WSW	1.0	1.2	.5									2.7	4.4
W	1.3	3.0	2.0	.4	.0							7.2	5.7
WNW	.9	1.0	.7	.2								2.9	5.4
NW	1.2	1.0	.3	.2	.0							2.7	4.5
NNW	1.2	.6	.1	.0								2.0	3.4
VARIABLE		.0	3.1	1.0	.0							4.1	5.4
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	38.3	//////
TOTALS	26.5	23.3	9.8	2.0	.1							100.0	2.8

TOTAL NUMBER OF OBSERVATIONS: 6766

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: MAR HOURS(LST): 0000-0200

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.4	.2	.1									.8	4.0
NNE	.2											.2	2.0
NE	1.2	.2	.1									1.5	3.2
ENE	2.0	1.7	.3									4.1	7.6
E	4.6	1.6	.5									6.8	7.0
ESE	1.9	.1										1.9	1.8
SE	.4	.2										.6	2.5
SSE	1.0	.3										1.3	2.6
S	1.0	1.4	.1									2.5	4.1
SSW	1.0	.6	.3									1.9	3.9
SW	1.5	.3		.1								1.9	2.9
WSW	1.2	2.5	1.1	.2								4.5	5.7
W	2.2	4.5	2.5									9.1	5.1
WNW	.6	1.6	.9									3.1	5.4
NW	.2	.5	.1									.9	4.1
NNW	1.1	.1	.1									1.3	2.6
VARIABLE		.1	2.5	.3								2.9	6.8
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	59.6	//////
TOTALS	20.4	15.7	8.6	.6								100.0	2.8

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: MAR HOURS(LST): 0300-0500

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.3	.1	.2									.6	4.7
NNE	.2											.2	1.5
NE	.8	.6	.1									1.5	3.6
ENE	2.4	1.0	.2									3.5	3.1
E	3.9	2.2	.1									6.1	2.9
ESE	3.1	.5	.2									3.9	2.6
SE	1.1	.2										1.3	2.3
SSE	.4	.6										1.1	3.4
S	1.5	.9	.1									2.5	3.5
SSW	.6	.9	.1									1.6	3.9
SW	1.5	.8	.2									2.5	3.6
WSW	1.1	2.5	1.1	.2								4.8	5.4
W	2.9	4.0	1.8	.3	.1							9.1	4.9
WNW	1.0	2.3	1.0	.2								4.4	5.4
NW	1.0	.4	.1	.3								1.8	5.3
NNW	1.1	.1										1.2	1.9
VARIABLE			1.9	.9								2.8	9.6
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	51.0	//////
TOTALS	22.3	17.0	7.2	1.9	.1							100.0	2.1

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: MAR HOURS(LST): 0600-0800

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.6	.3										1.0	2.7
NNE	.3	.1										.4	2.5
NE	.5	.2										.8	2.7
ENE	2.2	.8	.4									3.3	3.6
E	4.3	4.5	.2									9.6	3.4
ESE	3.2	.8										4.0	2.4
SE	2.3	1.0										3.2	2.7
SSE	.8	1.0										1.7	3.4
S	1.1	.8	.4									2.3	4.0
SSW	1.2	.5										1.7	3.3
SW	1.3	1.7	.1									3.1	3.7
WSW	2.2	1.7	.4	.1								4.4	4.2
W	1.8	5.1	3.2	.5								10.6	5.7
WNW	.6	1.3	1.1	.4								3.4	6.6
NW	.3	.4	.2	.1								1.1	5.5
NNW	1.1	.3	.3	.1								1.8	4.4
VARIABLE			1.9	.5								2.5	8.9
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	45.1	//////
TOTALS	24.3	20.4	8.4	1.8								100.0	2.4

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 78-87
MONTH: MAR HOURS(LST): 0900-1100

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.5	.9	.1									1.5	4.0
NNE	.4	.1	.1									.6	3.3
NE	.6	1.0										1.6	3.7
ENE	2.5	2.8	.4									5.7	4.1
E	3.7	3.9	.5									8.1	3.8
ESE	4.0	1.6	.2									5.8	2.9
SE	3.0	2.4	.4									5.8	3.8
SSE	.5	1.7	.6									3.0	4.4
S	1.7	2.9	.4	.3								5.4	4.7
SSW	1.8	2.4	1.2									5.4	4.8
SW	1.5	1.3	.4									3.2	4.1
WSW	1.6	3.1	1.5	.4								6.7	5.6
W	.5	3.4	4.0	1.2								9.1	7.4
WNW	.8	1.6	2.3	1.1								5.7	7.1
NW	.9	.9	1.0	.4								3.0	6.1
NNW	.6	1.1	.3	.1								2.2	4.7
VARIABLE			7.8	1.9								9.8	9.2
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	17.4	//////
TOTALS	24.7	31.0	21.4	5.5								100.0	4.5

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10687G STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: MAR HOURS(LST): 1200-1400

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.4	1.1	.2									1.7	4.5
NNE	.6	.5										1.2	3.3
NE	1.5	2.3	.2									4.0	4.1
ENE	1.9	2.7	.3									4.9	4.1
E	1.3	2.8	.2									4.3	4.3
ESE	2.5	3.7	.2									6.3	3.9
SE	1.7	2.5	1.1									5.3	4.4
SSE	.9	2.2	.6									3.7	4.9
S	1.5	2.6	1.2	.3								5.6	5.3
SSW	1.4	2.8	1.0	.2								5.4	5.1
SW	.7	2.2	1.3									3.7	6.1
WSW	.8	2.6	1.6	.2								5.2	6.0
W	.6	3.9	4.0	1.5								10.0	7.4
WNW	.6	2.3	4.1	.8								7.7	7.3
NW	.4	.6	1.8	.8	.1							3.8	8.2
NNW	1.1	1.4	1.1	.1								3.7	5.4
VARIABLE			12.9	2.8	.1							15.8	9.5
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	7.8	//////
TOTALS	17.5	35.9	31.8	6.7	.2							100.0	5.7

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAF TAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: MAR HOURS(LST): 1500-1700

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.5	.9	.2									1.6	4.2
NNE	1.3	.6										1.9	2.8
NE	2.2	1.6										3.8	3.3
ENE	2.3	2.6	.6									5.6	4.1
E	2.9	3.9	.5									7.3	3.9
ESE	2.3	3.1	.4									5.8	4.0
SE	1.8	1.5	.4									3.8	4.1
SSE	1.3	1.0	.3									2.6	4.0
S	.9	2.2	.8									3.9	4.6
SSW	1.6	2.6	.5									4.7	4.3
SW	1.8	3.2	1.2	.1								6.3	4.9
WSW	1.0	1.6	1.7									4.3	5.6
W	1.0	5.6	5.6	1.2	.1							13.4	7.1
WNW	1.2	1.8	3.1	.4	.1							6.7	7.0
NW	1.3	1.0	1.2	.3								3.8	5.8
NNW	1.8	2.2	1.0	.1								5.1	4.8
VARIABLE			9.0	2.9	.2							12.2	9.5
CALM	//////////											7.4	//////
TOTALS	25.1	35.3	26.8	5.1	.4							100.0	5.2

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10687U STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: MAR HOURS (LST): 1800-2000

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	1.4	.5	.1									2.0	2.9
NNE	.6	.4										1.1	2.5
NE	2.0	1.0	.1									3.1	3.2
ENE	2.0	1.9	.3									4.3	3.7
E	5.5	2.9	.9									9.2	3.4
ESE	3.3	.4										3.8	2.0
SE	1.3	.1										1.4	2.4
SSE	1.1	.5	.1									1.7	3.7
S	2.2	.6	.2	.1								3.1	3.5
SSW	2.6	.8	.4									3.8	3.4
SW	1.3	1.2	.5									3.0	4.0
WSW	2.7	2.2	.4									5.3	3.8
W	4.3	4.9	2.8									12.0	4.7
WNW	1.0	2.5	.9	.3								4.6	5.3
NW	.3	.5	.3									1.2	4.9
NNW	1.8	1.1	.1									3.0	3.2
VARIABLE			2.7	.2								2.9	8.8
CALM	//////////											34.4	//////
TOTALS	33.4	21.6	9.9	.6								100.0	2.6

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: MAR HOURS (LST): 2100-2300

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.4	.1										.5	2.4
NNE	.3	.1										.4	2.8
NE	1.3	.5	.1									1.9	3.0
ENE	1.8	1.6	.3									3.8	3.9
E	5.2	3.0	.2									8.4	3.0
ESE	1.5	.3										1.8	2.0
SE	.5											.5	2.2
SSE	1.2	.3	.1									1.6	2.9
S	1.1	.8	.1									1.9	3.8
SSW	1.1	.5	.5	.1								2.3	4.3
SW	1.2	1.0	.6	.1								2.9	4.7
WSW	1.8	1.6	.9	.1								4.4	4.8
W	3.1	4.1	1.1									8.3	4.4
WNW	.6	1.0	1.2	.1								2.9	5.9
NW	.6	.3	.3									1.3	4.5
NNW	1.5	.3	.1	.1								2.0	3.1
VARIABLE			1.7	.4								2.2	9.4
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	52.8	//////
TOTALS	23.3	15.6	7.3	1.0								100.0	1.9

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10687D STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: MAR HOURS(LST): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.6	.5	.1									1.2	3.7
NNE	.5	.2	.0									.8	2.8
NE	1.3	.9	.1									2.3	3.5
ENE	2.1	1.9	.4									4.4	3.8
E	4.0	3.1	.4									7.5	3.4
ESE	2.7	1.3	.1									4.2	3.0
SE	1.5	1.0	.2									2.7	3.6
SSE	.9	1.0	.2									2.1	3.9
S	1.4	1.5	.4	.1								3.4	4.4
SSW	1.4	1.4	.5	.0								3.3	4.3
SW	1.3	1.5	.6	.0								3.3	4.4
WSW	1.5	2.2	1.1	.2								4.9	5.2
W	2.1	4.4	3.1	.6	.0							10.2	5.9
WNW	.8	1.8	1.8	.4	.0							4.8	6.5
NW	.6	.6	.6	.2	.0							2.1	6.1
NNW	1.3	.8	.4	.1								2.5	4.1
VARIABLE		.0	5.1	1.2	.0							6.4	9.3
CALM	//////////											33.8	//////
TOTALS	24.0	24.1	15.2	2.9	.1							100.0	3.3

TOTAL NUMBER OF OBSERVATIONS: 7440

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: APR HOURS(LST): 0000-0200

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.5	.5										.9	3.4
NNE		.3										.3	5.0
NE	1.8	.2										2.0	2.4
ENE	2.7	.7	.1									2.8	2.9
E	1.7	1.1	.3									3.2	3.6
ESE	1.1	.3										1.5	2.6
SE	.1											.1	2.0
SSE	.6											.6	2.0
S	.3	.1										.5	2.0
SSW	.3	.2										.6	3.0
SW	.5	.1										.6	3.0
WSW	1.8	1.1	.8									3.7	4.1
W	4.3	3.4	2.5	.3								10.5	4.8
WNW	1.2	1.9	.8	.2								4.2	4.8
NW	1.9	1.5	.3	.1								3.8	4.1
NNW	1.6	.9	.1									2.6	3.0
VARIABLE		.1	.3									.5	7.8
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	61.7	//////
TOTALS	19.9	12.6	5.3	.7								100.0	1.5

TOTAL NUMBER OF OBSERVATIONS: 864

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: APR HOURS(LST): 0300-0500

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.9	.9										1.8	3.3
NNE	.6											.6	2.0
NE	.7	.6										1.2	3.2
ENE	1.0	1.4	.2									2.6	3.8
E	1.7	1.4	.1									3.2	3.4
ESE	1.4	.1										1.5	1.9
SE	.6	.1										.7	2.2
SSE		.2										.2	5.5
S	.8		.1									.9	2.6
SSW	.2	.1										.3	3.0
SW	.6	.9										1.5	3.7
WSW	1.1	1.2	.6									2.9	4.3
W	3.4	4.9	2.5	.5								11.2	5.0
WNW	1.2	2.4	.3									4.0	4.1
NW	1.4	1.0	.7									3.1	4.3
NNW	1.4	1.1										2.5	3.1
VARIABLE			.9	.2								1.1	8.7
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	60.8	//////
TOTALS	16.8	16.3	5.4	.7								100.0	1.6

TOTAL NUMBER OF OBSERVATIONS: 865

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER PERIOD OF RECORD: 78-87
MONTH: APR HOURS(LST): 0600-0800

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	1.0	1.0										2.0	3.5
NNE	.1	.3										.5	3.8
NE	.9	.7										1.6	3.2
ENE	2.1	1.0	.5									3.6	3.6
E	2.7	2.0	.3									5.1	3.4
ESE	1.7	.6	.1									2.4	2.6
SE	1.2	.1										1.4	2.2
SSE	.1	.1										.5	2.5
S	.7	.5										1.1	2.9
SSW	.8	.7	.1									1.6	3.6
SW	.7	1.2	.2									2.1	4.4
WSW	.8	2.0	.8									3.6	5.1
W	3.0	4.3	2.5	.6								10.4	5.5
WNW	.6	2.1	1.1									3.8	5.5
NW	2.1	1.8	.8	.1								4.8	4.4
NNW	2.0	1.4	.3									3.7	3.5
VARIABLE		.1	1.2	.4								2.1	4.4
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	49.7	//////
TOTALS	20.9	20.0	8.0	1.5								100.0	2.2

TOTAL NUMBER OF OBSERVATIONS: 887

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10687D STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: APR HOURS(LST): 0900-1100

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	1.2	1.8	.4									3.5	4.3
NNE	1.2	1.2	.2									2.7	3.7
NE	.4	2.4	.1									2.9	4.9
ENE	1.0	3.7	.6									5.3	4.7
E	1.9	4.3	.3									6.5	4.2
ESE	3.8	3.0	.2									7.1	3.3
SE	2.9	1.8	.2									4.9	3.3
SSE	1.6	1.1										2.7	3.2
S	1.0	.8	.2									2.0	3.8
SSW	1.1	1.7	.3									3.1	4.4
SW	1.0	1.0	.3	.1								2.5	4.8
WSW	.8	2.2	.7									3.7	5.2
W	2.4	4.7	3.4	1.0								11.4	6.3
WNW	1.9	2.0	2.7	.8								7.4	6.3
NW	1.9	2.1	2.2	.1								6.4	5.3
NNW	1.0	2.4	.6									3.9	4.6
VARIABLE		.1	10.2	1.6	.2							12.1	9.0
CALM	//////////											11.8	//////
TOTALS	25.3	36.4	22.8	3.6	.2							100.0	4.7

TOTAL NUMBER OF OBSERVATIONS: 841

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: APR HOURS(LST): 1200-1400

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N	1.0	1.7	.4	.1								3.3	4.9
NNE	1.7	1.8	.3									3.9	3.9
NE	1.2	1.9	.3									3.4	4.4
ENE	.9	3.5	.4	.1								4.9	4.8
E	1.7	3.0	.1									4.8	4.2
ESE	1.9	3.6	.1									5.6	4.2
SE	.9	2.7	1.3	.1								5.1	5.6
SSE	2.0	1.6	.3									3.9	3.6
S	1.3	1.7	.3									3.4	3.9
SSW	1.0	1.2	.4									2.7	4.4
SW	.7	2.0	.2	.1								3.0	4.9
WSW	1.6	2.8	1.7									6.1	5.2
W	2.0	4.7	3.9	.7								11.3	6.1
WNW	1.6	2.8	3.1	.7								8.2	6.4
NW	.9	2.2	2.7	.4								6.3	6.6
NNW	1.0	2.9	1.2									5.2	5.2
VARIABLE	.1	.4	12.6	5.3								18.4	9.9
CALM	//////											2.7	//////
TOTALS	21.5	40.5	29.7	9.5								100.0	5.6

TOTAL NUMBER OF OBSERVATIONS: 891

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: APR HOURS(LST): 1500-1700

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	1.5	2.9	.5									4.7	4.4
NNE	1.5	1.1	.1									2.7	3.3
NE	1.2	2.5	.5	.1								4.3	4.9
ENE	2.0	2.1	.9									5.1	4.4
E	2.0	4.7	.3									7.1	4.5
ESE	1.6	3.2	.2	.2								5.1	4.5
SE	.9	1.9	.3									2.9	4.1
SSE	1.6	1.5	.3									3.4	3.8
S	1.4	1.8	.6									3.7	4.5
SSW	1.5	.9										2.4	3.1
SW	.7	1.4	.1									2.1	4.3
WSW	1.0	2.6	1.4	.2								5.2	5.4
W	2.1	6.3	4.7	.6								13.7	6.1
WNW	1.6	2.7	2.8	.9								8.0	6.5
NW	1.0	3.9	3.4	.5								8.8	6.3
NNW	1.9	3.2	1.2	.3								6.6	5.0
VARIABLE			7.7	1.6	.1							9.3	4.1
CALM	//////////											4.8	//////
TOTALS	27.3	42.6	24.8	4.4	.1							100.0	5.2

TOTAL NUMBER OF OBSERVATIONS: 868

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: APR HOURS(LST): 1800-2000

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	4.2	2.4	.1									6.7	3.3
NNE	1.9	.6										2.5	2.9
NE	2.4	.7	.3									3.4	3.1
ENE	2.4	1.1	.1									3.6	3.2
E	5.1	2.9	.3									8.4	3.2
ESE	1.6	.7	.2									2.5	2.9
SE	.6	.1										.7	2.5
SSE	1.5	.6										2.0	2.8
S	.6	.3										.9	3.3
SSW	1.8	.6	.2									2.6	3.1
SW	1.0	.6										1.6	3.2
WSW	1.7	1.2	.3									3.3	4.0
W	2.2	6.7	2.5	.2								11.6	5.1
WNW	2.7	2.5	2.2	.1								7.5	5.0
NW	1.1	2.5	1.0									4.6	5.0
NNW	3.3	1.1	.3									4.8	3.2
VARIABLE		.1	1.5	.2	.1							1.9	9.2
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	31.5	//////
TOTALS	34.0	24.7	9.2	.6	.1							100.0	2.7

TOTAL NUMBER OF OBSERVATIONS: 807

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 176870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: APR HOURS(LST): 2100-2300

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	1.1	1.6	.1									2.8	3.5
NNE	1.5	.3										1.8	2.3
NE	2.2	.5	.1									2.7	2.4
ENE	1.6	1.1										2.7	3.2
E	3.7	1.6	.1									5.4	3.0
ESE	.6	.3										.9	3.0
SE	.2											.2	2.0
SSE	.1	.1										.2	3.5
S	.8	.3										1.1	2.8
SSW	.7	.3	.1									1.1	3.9
SW	.7	.2	.2									1.1	4.1
WSW	1.6	.6	.9									3.1	4.2
W	2.6	4.8	2.0		.1							9.5	5.0
WNW	1.1	1.2	1.2	.1								3.7	5.2
NW	1.6	1.6	.2	.1								3.5	4.0
NNW	2.3	.7	.1									3.1	2.9
VARIABLE			.5	.2								.7	9.7
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	56.1	//////
TOTALS	22.3	15.3	5.7	.4	.1							100.0	1.7

TOTAL NUMBER OF OBSERVATIONS: 882

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106670 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: APR HOURS(LST): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	1.4	1.6	.2	.0								3.2	3.9
NNE	1.1	.7	.1									1.9	3.3
NE	1.4	1.2	.2	.0								2.7	3.8
ENE	1.6	1.8	.4	.0								3.8	4.0
E	2.6	2.6	.3									5.5	3.7
ESE	1.7	1.5	.1	.0								3.3	3.5
SE	.9	.8	.2	.0								2.0	4.0
SSE	1.0	.6	.1									1.7	3.4
S	.9	.7	.2									1.7	3.7
SSW	.9	.7	.2									1.8	3.7
SW	.7	.9	.1	.0								1.8	4.3
WSW	1.3	1.7	.9	.0								3.9	4.8
W	2.7	5.0	3.0	.5	.0							11.2	5.5
WNW	1.5	2.2	1.8	.4								5.9	5.7
NW	1.5	2.1	1.4	.2								5.2	5.3
NNW	1.8	1.7	.5	.0								4.0	4.1
VARIABLE	.0	.1	4.4	1.0	.1							5.5	9.1
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	34.8	//////
TOTALS	23.0	26.1	13.9	2.2	.1							100.0	3.2

TOTAL NUMBER OF OBSERVATIONS: 7091

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: MAY HOURS(LST): 0000-0200

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.7	.1										.8	2.4
NNE	.4	.1										.5	2.2
NE	1.3	.1										1.4	2.2
ENE	2.1	1.3										3.3	3.1
E	2.6	1.6	.2									4.5	3.2
ESE	1.1											1.1	2.1
SE	.2											.2	1.5
SSE	.3	.4										.8	4.0
S	.7											.7	2.2
SSW	.9											.9	2.0
SW	.5	.2										.8	2.7
WSW	2.2	1.1	.2									3.5	3.0
W	3.2	2.5	.9									6.5	3.9
WNW	1.2	1.6	.7	.1	.1							3.7	5.0
NW	1.3	.9	.3									2.5	3.8
NNW	1.3	.4										1.7	2.6
VARIABLE			.7									.7	7.8
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	66.6	//////
TOTALS	19.8	10.5	2.9	.1	.1							100.0	1.2

TOTAL NUMBER OF OBSERVATIONS: 918

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: MAY HOURS (LST): 0300-0500

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.9											.9	1.9
NNE	.7	.1										.8	2.6
NE	.5	.3										.9	3.1
ENE	1.4	.7	.2									2.3	3.3
E	2.8	1.4	.3									4.6	3.3
ESE	1.7											1.7	1.6
SE	.4	.1										.5	2.6
SSE	.5	.1										.7	2.3
S	.4	.4										.9	3.4
SSW	1.0											1.0	1.8
SW	.5	.7										1.2	3.6
WSW	1.4	1.1	.2									2.7	3.5
W	3.6	2.9	.8	.1								7.4	4.0
WNW	1.1	1.6	.1									2.8	4.0
NW	.8	.7										1.4	3.2
NNW	1.7	.3										2.1	2.5
VARIABLE			.7									.7	8.0
CALM	//////////											67.5	//////
TOTALS	19.6	10.5	2.3	.1								100.0	1.1

TOTAL NUMBER OF OBSERVATIONS: 918

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: MAY HOURS(LST): 0600-0800

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.3	.5										.9	3.6
NNE	.6	.2										.9	3.0
NE	1.2	.6										1.8	2.9
ENE	2.4	2.1										4.4	3.3
E	4.5	2.6	.3									7.5	3.5
ESE	4.2	.6										4.9	2.3
SE	3.4	.2										3.6	2.1
SSE	1.5	.2										1.7	1.9
S	2.1	1.3										3.4	2.6
SSW	1.1	.4										1.5	3.1
SW	.9	.4										1.3	2.8
WSW	2.7	2.4	.2									5.3	3.5
W	3.2	3.7	1.4	.2								8.5	4.6
WNW	1.7	2.5	.1									4.3	3.7
NW	2.2	1.1										3.2	3.0
NNW	1.9	.5										2.5	2.3
VARIABLE			1.3	.1								1.4	8.7
CALM	//////////											42.9	//////
TOTALS	34.0	19.5	3.4	.3								100.0	1.9

TOTAL NUMBER OF OBSERVATIONS: 924

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: MAY HOURS(LST): 0900-1100

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	1.2	.4										1.6	2.9
NNE	1.8	.4										2.3	2.4
NE	1.5	1.2										2.7	3.4
ENE	1.3	2.4	.4									4.1	4.6
E	3.0	3.7	.4									7.1	3.8
ESE	5.7	4.0	.5									10.2	3.4
SE	3.1	2.3	.3									5.7	3.5
SSE	1.7	1.7	.5									4.0	4.0
S	2.4	2.8	1.0									6.1	4.3
SSW	1.4	2.5	.2									4.1	4.1
SW	1.5	1.9	.3									3.8	4.0
WSW	1.6	2.9	.8	.1								5.4	4.8
W	2.4	4.3	2.4	.2								9.2	5.3
WNW	1.2	2.9	1.1	.3								5.5	5.4
NW	1.1	2.3	1.3									4.6	4.9
NNW	3.4	2.0	.3									5.8	3.6
VARIABLE			7.3	.3								7.6	8.3
CALM	//////////											10.2	//////
TOTALS	34.3	37.6	16.9	1.0								100.0	4.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: MAY HOURS(LST): 1200-1400

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	2.3	1.6	.2	.1								4.2	4.1
NNE	1.0	1.4										2.4	3.6
NE	1.6	1.3	.1									3.0	3.4
ENE	1.8	2.6	.3									4.7	4.1
E	2.4	3.1	.1									5.6	3.8
ESE	3.2	4.4	.5									8.2	4.2
SE	1.2	2.3	.9									4.3	5.0
SSE	1.2	1.8	.3	.1								3.4	4.6
S	1.6	2.9	.5									5.1	4.5
SSW	1.8	2.9	.2									4.9	3.8
SW	1.3	3.4	.4	.1								5.3	4.7
WSW	1.4	2.6	1.2	.1								5.3	5.1
W	1.5	4.9	3.1	.5								10.1	6.1
WNW	1.8	4.5	3.8	.2								10.1	5.7
NW	1.1	2.0	1.0	.1								4.2	5.4
NNW	1.7	1.5	.8									4.0	4.3
VARIABLE			10.6	.9	.1							11.6	8.4
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	3.7	//////
TOTALS	26.9	43.3	23.9	2.2	.1							100.0	5.0

TOTAL NUMBER OF OBSERVATIONS: 4930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 79-87
MONTH: MAY HOURS(LST): 1500-1700

DIRECTION (DEGREES)	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	1.9	1.6	.4									4.0	3.9
NNE	1.9	1.1										3.0	3.4
NE	1.3	.9										2.2	3.1
ENE	1.7	1.6	1.1									4.4	4.6
E	2.5	4.4	.4									7.3	4.1
ESE	3.1	2.0	.4									5.6	3.8
SE	2.2	1.9	.2									4.3	3.8
SSE	.8	1.9	.4	.1								3.2	5.2
S	2.3	2.3	.6									5.2	4.0
SSW	2.5	2.5	.2									5.2	3.8
SW	1.5	2.5	.1									4.1	4.1
WSW	1.2	2.9	1.1									5.2	4.9
W	2.6	6.6	3.6	.4	.1							13.3	5.8
WNW	1.3	3.2	2.7	.9								8.1	6.4
NW	1.0	2.9	1.7	.2								5.8	5.7
NNW	2.2	2.7	.9	.1								5.8	4.5
VARIABLE		.2	7.1	1.0	.3							8.6	8.9
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	4.6	//////
TOTALS	29.9	41.7	21.0	2.7	.4							100.0	4.9

TOTAL NUMBER OF OBSERVATIONS: 927

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: MAY HOURS (LST): 1800-2000

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	2.7	1.1	.1									3.9	3.0
NNE	1.5	.2										1.7	2.4
NE	1.7	.8										2.5	2.8
ENE	2.5	.7	.1									3.3	2.8
E	6.5	3.4	.4									10.3	3.2
ESE	2.5	1.4										3.9	3.1
SE	1.5	.4	.1									2.1	2.9
SSE	1.3	.1	.1									1.5	2.6
S	2.1	.9	.1									3.0	3.0
SSW	.7	.4	.1									1.2	3.3
SW	1.6	1.1	.2									2.9	3.6
WSW	2.9	2.1	.5	.1								5.6	3.9
W	3.8	5.1	1.2	.3								10.4	4.6
WNW	1.6	2.8	2.2	.1								6.7	5.4
NW	2.0	1.3	1.2									4.5	4.5
NNW	2.4	2.8	.2									5.4	3.6
VARIABLE		.1	2.8	.5	.1							3.4	8.5
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	27.6	//////
TOTALS	37.4	24.6	9.4	.9	.1							100.0	2.8

TOTAL NUMBER OF OBSERVATIONS: 921

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: MAY HOURS(LST): 2100-2300

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.9	.4										1.3	3.0
NNE	.9											.9	1.5
NE	2.0	.3										2.3	2.2
ENE	3.3	1.0										4.2	2.5
E	5.2	2.0	.1									7.3	2.8
ESE	1.1	.2										1.3	2.4
SE	.2											.2	1.5
SSE	.8											.8	1.9
S	.7	.1										.8	2.3
SSW	.3		.1									.4	3.3
SW	.5	.2		.1								.9	4.1
WSW	2.0	1.3										3.3	3.1
W	2.7	2.6	1.2									6.5	4.3
WNW	2.0	2.1	.9	.1								5.0	4.8
NW	1.7	1.1	.4	.2								3.5	4.2
NNW	1.7	.7										2.4	2.5
VARIABLE			.4									.4	7.5
CALM	//////////											58.7	//////
TOTALS	25.8	11.9	3.1	.4								100.0	1.4

TOTAL NUMBER OF OBSERVATIONS: 922

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: MAY HOURS(LST): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	1.4	.7	.1	.0								2.2	3.4
NNE	1.1	.4										1.6	2.9
NE	1.4	.7	.0									2.1	3.0
ENE	2.0	1.5	.3									3.8	3.6
E	3.7	2.6	.3									6.8	3.5
ESE	2.9	1.6	.2									4.6	3.3
SE	1.5	.9	.2									2.6	3.5
SSE	1.0	.6	.2	.0								2.0	3.8
S	1.5	1.3	.3									3.1	3.8
SSW	1.2	1.1	.1									2.4	3.6
SW	1.1	1.3	.1	.0								2.5	4.0
WSW	1.9	2.0	.5	.0								4.5	4.1
W	2.9	4.1	1.8	.2	.0							9.0	5.0
WNW	1.5	2.7	1.4	.2	.0							5.8	5.3
NW	1.4	1.5	.7	.1								3.7	4.6
NNW	2.1	1.4	.3	.0								3.7	3.5
VARIABLE		.0	3.9	.3	.1							4.3	4.5
CALM	//////////											35.1	//////
TOTALS	28.5	25.0	10.4	1.0	.1							100.0	2.8

TOTAL NUMBER OF OBSERVATIONS: 7390

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: JUN HOURS(LST): 0000-0200

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.6	.3										.9	3.0
NNE	.1	.1										.2	3.0
NE	.3											.3	1.7
ENE	.9	.3										1.2	2.4
E	1.3	.2										1.6	2.2
ESE	.6											.6	1.2
SE	.4											.4	2.0
SSE	.6											.6	1.8
S	.3											.3	2.0
SSW	.4	.4	.1									1.0	3.8
SW	1.6	.1										1.7	2.3
WSW	2.2	.9	.1									3.2	3.2
W	5.6	3.6	1.3	.1								10.6	3.9
WNW	1.5	1.2	.3	.1								3.2	4.3
NW	1.1	.4	.4									2.0	3.9
NNW	1.5	.1										1.6	2.2
VARIABLE			.4	.1								.6	9.2
CALM	//////////											70.0	//////
TOTALS	19.1	7.8	2.8	.3								100.0	1.0

TOTAL NUMBER OF OBSERVATIONS: 896

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: JUN HOURS(LST): 0300-0500

DIRECTION (DEGREES)	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.6	.2										.8	2.6
NNE													
NE	.4											.4	2.8
ENE	.3	.3										.7	2.8
E	1.4	.2										1.7	2.3
ESE	.6	.1										.7	1.8
SE	.2											.2	1.5
SSE	.6											.6	2.4
S	1.1	.3										1.4	2.2
SSW	.8		.1									.9	2.5
SW	.8	.6	.1									1.4	3.6
WSW	1.3	.8	.7									3.2	4.0
W	5.1	4.3	1.1									10.6	3.8
WNW	1.7	1.8	.3	.1								3.9	4.0
NW	1.1	.6	.6									2.2	4.3
NNW	1.6	.3										1.9	2.8
VARIABLE			.9									.9	8.5
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	68.5	//////
TOTALS	18.0	9.6	3.8	.1								100.0	1.1

TOTAL NUMBER OF OBSERVATIONS: 899

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106970 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: JUN HOURS(LST): 0600-0800

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	1.1	.1										1.2	2.2
NNE	.1	.1										.2	2.5
NE	.7	.2										.9	2.9
ENE	1.2	.3	.1									1.7	3.3
E	2.2	1.4										3.7	2.9
ESE	2.9	.7										3.6	2.3
SE	2.3	.2										2.6	2.3
SSE	1.3	.1										1.4	1.8
S	1.7	.4	.1									2.2	2.8
SSW	1.0	.4	.2	.1								1.8	4.0
SW	1.1	.8										1.9	3.4
WSW	1.9	1.7	.3									3.9	3.8
W	9.1	7.4	2.9	.2								19.7	4.9
WNW	2.3	3.1	.7	.4								6.6	5.0
NW	2.1	2.0	.2									4.3	3.7
NNW	2.1	.2	.2									2.6	2.5
VARIABLE			2.4	.4								2.9	4.7
CALM	//////////											44.0	//////
TOTALS	28.2	19.3	7.2	1.2								100.0	2.2

TOTAL NUMBER OF OBSERVATIONS: 960

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10687G STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: JUN HOURS(LST): 0900-1100

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.8	.8	.1									1.7	3.8
NNE	.9	.3										1.2	2.9
NE	1.0	.6										1.6	2.8
ENE	1.9	.4	.1									2.3	2.9
E	2.6	2.0	.3									4.9	3.7
ESE	3.3	1.8	.1									5.2	3.2
SE	2.2	1.8	.2									4.2	3.6
SSE	2.8	1.2	.1									4.1	3.1
S	2.9	2.3	.1									5.3	3.3
SSW	1.0	1.0	.4									2.4	4.5
SW	1.0	1.6	.3									2.9	4.3
WSW	1.3	4.3	1.6									7.2	5.3
W	3.0	9.3	4.8	.3								17.4	5.7
WNW	1.9	3.7	3.6	.6								9.7	6.1
NW	.9	1.8	1.8	.2								4.7	6.0
NNW	2.0	2.1	.3									4.4	4.0
VARIABLE		.2	8.6	1.6	.1							10.4	6.9
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	10.2	//////
TOTALS	29.3	35.2	22.4	2.7	.1							100.0	4.8

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: JUN HOURS(LST): 1200-1400

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	1.8	.8	.1									2.7	3.1
NNE	.8	.7										1.4	3.2
NE	.8	1.2	.1									2.1	4.0
ENE	1.8	.4										2.2	2.7
E	2.3	2.3	.1									4.8	3.5
ESE	1.4	1.6	.3									3.3	4.0
SE	1.4	1.4	.3									3.2	4.1
SSE	1.2	.9	.1	.1								2.3	4.1
S	1.6	2.3	.8									4.7	4.4
SSW	1.4	2.9	.1									4.4	4.1
SW	.9	1.9	.9	.1								3.8	5.4
WSW	1.6	3.0	.9									5.4	4.8
W	1.9	7.3	4.8	.3								14.3	6.0
WNW	1.3	4.3	5.9	1.0								12.6	7.0
NW	1.1	3.1	1.8	.4								6.4	6.0
NNW	2.3	2.6	.4									5.3	3.8
VARIABLE		.7	13.8	2.3								16.8	8.9
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	4.1	//////
TOTALS	23.7	37.4	30.4	4.3								100.0	5.5

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER PERIOD OF RECORD: 77-86
MONTH: JUN HOURS(LST): 1500-1700

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	1.9	2.0	.1									4.0	3.5
NNE	1.3	1.2										2.6	3.2
NE	1.8	.8										2.6	3.2
ENE	1.6	1.4										3.0	3.3
E	1.6	2.3	.1									4.0	3.8
ESE	2.3	1.8	.1									4.2	3.5
SE	1.3	1.3	.1									2.6	3.3
SSE	1.1	.7	.3									2.1	3.9
S	1.1	1.4	.4									3.0	4.4
SSW	1.7	1.8	.7	.1								3.8	4.5
SW	1.1	1.7	.3									3.1	4.4
WSW	1.7	3.7	1.1									6.4	4.9
W	2.6	7.0	4.9	.8								15.2	6.0
WNW	1.3	4.4	5.1	1.6								12.4	7.1
NW	1.9	2.3	3.1	.4								7.3	6.1
NNW	2.1	3.6	1.2	.1								7.0	4.8
VARIABLE		.7	9.9	2.5								12.1	9.0
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	4.6	//////
TOTALS	25.9	37.4	27.1	5.6								100.0	5.3

TOTAL NUMBER OF OBSERVATIONS: 960

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: JUN HOURS(LST): 1800-2000

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N	2.8	1.0										3.8	2.7
NNE	1.9	.7										2.6	2.4
NE	1.4	.3										1.8	2.3
ENE	3.1	.3	.2									3.7	2.5
E	3.7	1.7										5.3	2.8
ESE	1.7	1.0	.1									2.8	3.2
SE	.8	.3	.3									1.4	3.7
SSE	.3	.3										.7	3.0
S	1.1	.6	.1									1.8	3.3
SSW	1.4	.3										1.8	2.8
SW	1.7	.6	.4									2.7	3.6
WSW	2.4	2.6	.8									5.8	4.2
W	6.4	7.3	2.9	.6								17.2	4.6
WNW	2.6	4.8	2.9	.4								10.7	5.4
NW	1.6	3.2	1.2	.2								6.2	4.9
NNW	4.1	2.3	.7									7.1	3.4
VARIABLE			2.6	.2								2.9	8.7
CALM	//////////											22.0	//////
TOTALS	37.0	27.3	12.2	1.4								100.0	3.2

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: JUN HOURS(LST): 2100-2300

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	1.2	.6										1.8	2.6
NNE	.8											.8	2.0
NE	.2	.1										.3	3.0
ENE	2.0	.1										2.1	1.7
E	1.4	.9										2.3	2.8
ESE	.8		.1									.9	2.4
SE	.1	.1										.2	3.0
SSE	.3											.3	1.0
S	1.1	.1										1.2	2.5
SSW	.7	.3										1.0	2.9
SW	1.2	.3	.2									1.8	3.2
WSW	3.5	.8	.3									4.6	2.8
W	5.6	4.1	.6									10.2	3.4
WNW	1.1	1.1	.7									2.9	4.5
NW	1.2	1.2	.3									2.8	4.1
NNW	2.2	.2	.2									2.7	2.6
VARIABLE			.2	.4								.7	10.2
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	67.4	//////
TOTALS	23.5	10.6	2.7	.4								100.0	1.2

TOTAL NUMBER OF OBSERVATIONS: 898

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106A73 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: JUN HOURS(LST): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	1.3	.7	.0									2.1	3.0
NNE	.7	.4										1.1	2.8
NE	.8	.4	.0									1.3	3.0
ENE	1.6	.5	.1									2.1	2.7
E	2.1	1.4	.1									3.5	3.1
ESE	1.7	.9	.1									2.7	3.1
SE	1.1	.6	.1									1.9	3.3
SSE	1.0	.4	.1	.0								1.5	3.1
S	1.4	.9	.2									2.5	3.5
SSW	1.1	.9	.2	.0								2.1	3.9
SW	1.2	.9	.3	.0								2.4	4.0
WSW	2.0	2.2	.7									5.0	4.3
W	4.3	6.3	2.9	.3								13.8	4.9
WNW	1.7	3.1	2.4	.5								7.7	5.9
NW	1.3	1.8	1.2	.2								4.5	5.2
NNW	2.2	1.4	.4	.0								4.1	3.6
VARIABLE		.1	4.9	.9	.0							5.9	8.9
CALM	//////////											35.8	//////
TOTALS	25.6	23.0	13.6	1.9	.0							100.0	3.0

TOTAL NUMBER OF OBSERVATIONS: 7193

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106670 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-86
MONTH: JUL HOURS(LST): 0000-0200

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.4											.4	2.0
NNE	.2											.2	2.0
NE	.5											.5	1.4
ENE	.4											.4	2.5
E	.8	.1										.9	2.3
ESE	.2											.2	2.5
SE		.1										.1	4.0
SSE	.3	.1										.4	2.8
S	.1	.2										.3	3.3
SSW	.8	.6										1.4	3.0
SW	1.3	.9										2.2	3.3
WSW	2.9	2.2	.4									5.5	3.5
W	3.5	2.7	.3	.1								6.6	3.8
WNW	1.1	.4	.2	.3								2.1	4.8
NW	1.2	.4	.2									1.8	3.3
NNW	1.0	.2	.1									1.3	2.9
VARIABLE		.4										.4	8.0
CALM	//////////											75.1	//////
TOTALS	14.7	8.0	1.7	.4								100.0	.9

TOTAL NUMBER OF OBSERVATIONS: 924

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-86
MONTH: JUL HOURS (LST): 0300-0500

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N	.3	.2		.1								.6	4.5
NNE													
NE	.2	.1										.3	3.3
ENE	.8											.8	1.9
E	1.4	.2										1.6	2.0
ESE	.5											.5	1.8
SE													
SSE	.2											.2	2.0
S	1.3	.1										1.4	2.1
SSW	.9	.3										1.2	2.9
SW	1.4	.9	.1									2.4	3.4
WSW	2.6	1.9	.1									4.7	3.4
W	3.6	2.6	.4	.3								6.9	3.8
WNW	.9	.8	.6									2.3	4.7
NW	1.5	.1	.1									1.7	2.4
NNW	1.5	.2										1.7	2.1
VARIABLE				.1								.1	12.0
CALM	//////////											73.5	//////
TOTALS	17.1	7.5	1.4	.5								100.0	.9

TOTAL NUMBER OF OBSERVATIONS: 924

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: JUL HOURS(LST): 0600-0800

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.3	.2										.5	3.4
NNE	.1	.1										.2	3.0
NE	.2	.1										.3	2.7
ENE	.6	.4										1.1	2.9
E	1.6											1.6	1.8
ESE	1.9	.3										2.2	2.3
SE	1.5	.2										1.7	2.4
SSE	2.1	.1										2.2	2.2
S	1.6	1.4	.1									3.1	3.3
SSW	1.2	.6	.3									2.2	3.4
SW	1.3	1.2										2.5	3.4
WSW	2.2	2.9	.6									5.7	4.1
W	3.8	5.5	2.2									11.5	4.6
WNW	1.7	1.5	1.0									4.2	4.6
NW	1.6	1.9	.8									4.3	4.4
NNW	1.9	.9										2.8	3.0
VARIABLE		.9										.9	7.9
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	52.9	//////
TOTALS	23.7	17.5	5.8									100.0	1.8

TOTAL NUMBER OF OBSERVATIONS: 924

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: JUL HOURS (LST): 0900-1100

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	1.5	.9	.1									2.5	3.1
NNE	.8	.2	.2									1.2	3.5
NE	.3	.6										1.0	3.8
ENE	1.0	1.5	.1									2.6	3.9
E	2.3	1.1	.1									3.5	3.2
ESE	3.2	1.3	.1									4.7	2.8
SE	2.7	1.6										4.3	2.8
SSE	3.5	.5	.2									4.2	2.6
S	1.8	2.6	.2									4.7	4.0
SSW	1.8	2.1	.2									4.1	3.7
SW	1.4	2.3	.6									4.3	4.6
WSW	2.6	1.8	1.0									5.4	4.2
W	2.7	8.5	5.1	.3								16.7	5.6
WNW	3.7	4.3	2.4	.3								10.7	5.1
NW	1.9	3.4	1.4									6.7	4.7
NNW	1.9	1.7	.6									4.3	4.3
VARIABLE	.1	.1	4.8	.4								5.4	8.1
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	13.7	//////
TOTALS	33.3	34.6	17.2	1.1								100.0	3.9

TOTAL NUMBER OF OBSERVATIONS: 924

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: JUL HOURS (LST): 1200-1400

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.8	1.2	.3	.1								2.4	4.7
NNE	1.0	.6										1.6	3.5
NE	1.0	.9										1.8	3.2
ENE	1.6	1.8	.1									3.6	3.6
E	1.9	.8	.6									3.4	3.8
ESE	1.8	1.4										3.2	3.5
SE	1.4	1.3	.1									2.8	3.8
SSE	1.7	1.0	.1									2.8	3.2
S	1.7	2.2	.5									4.4	4.3
SSW	1.5	1.1	.5									3.1	4.3
SW	.3	1.6	.4									2.4	5.5
WSW	1.7	4.8	1.4	.2								8.1	5.2
W	3.0	7.7	6.3	.6								17.6	6.1
WNW	2.7	4.3	5.8	.9								13.7	6.3
NW	1.9	3.4	2.9	.4								8.7	5.8
NNW	2.6	2.7	1.1	.2								6.6	4.4
VARIABLE		.2	8.4	.8								9.4	6.6
CALM	////	////	////	////	////	////	////	////	////	////	////	4.2	////
TOTALS	26.8	36.9	28.8	3.2								100.0	5.2

TOTAL NUMBER OF OBSERVATIONS: 924

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: JUL HOURS (LST): 1500-1700

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N	.4	1.2	.4	.1								2.5	4.9
NNE	1.7	1.0										2.7	3.2
NE	.5	1.0										1.5	3.9
ENE	1.4	1.2	.1									2.7	3.3
E	2.1	1.7	.1									3.9	3.5
ESE	1.9	1.1	.1									3.1	3.1
SE	2.2	.3	.3									2.8	3.0
SSE	1.5	1.6	.8									4.1	4.4
S	1.8	1.8	.2									3.9	3.8
SSW	1.3	1.2	.2									2.7	3.9
SW	1.5	1.6	.4									3.8	4.2
WSW	1.6	2.8	1.4	.2								6.1	5.3
W	3.9	7.7	5.7	.6								18.0	5.7
WNW	1.9	4.2	4.4	.9								11.5	6.5
NW	1.5	4.8	2.2	.1	.1							8.7	5.6
NNW	2.7	3.1	1.2	.1								7.1	4.7
VARIABLE			6.9	1.8								8.8	5.2
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	6.2	//////
TOTALS	28.5	36.8	24.6	3.9	.1							100.0	5.0

TOTAL NUMBER OF OBSERVATIONS: 924

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: JUL HOURS(LST): 1800-2000

DIRECTION (DEGREES)	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
	WIND SPEED IN KNOTS												
N	2.7	.8	.3									3.8	3.0
NNE	1.5	.7	.2									2.4	3.2
NE	1.2	.5										1.7	2.4
ENE	2.0	.7										2.6	2.4
E	2.7	.5	.1									3.4	2.6
ESE	2.2	.3										2.5	2.4
SE	.9	.7										1.5	3.1
SSE	1.1	.1										1.2	2.1
S	1.7	1.1										2.8	3.3
SSW	1.2	.5	.2									2.0	3.3
SW	1.7	.5										2.3	2.9
WSW	2.7	2.3	.9									5.9	4.2
W	4.7	6.5	3.0	.1								14.3	4.8
WNW	2.7	5.4	2.7									10.8	5.1
NW	3.3	4.4	.9	.1								8.7	4.2
NNW	2.7	1.8	.5									5.1	4.0
VARIABLE		.1	1.5	.4								2.1	8.7
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	27.0	//////
TOTALS	34.7	27.0	10.4	.7								100.0	3.0

TOTAL NUMBER OF OBSERVATIONS: [illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: JUL HOURS(LST): 2100-2300

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.8	.2	.1									1.1	3.2
NNE	.3											.3	2.0
NE	.5											.5	2.0
ENE	1.4											1.4	1.6
E	1.4											1.4	1.5
ESE	.5											.5	1.4
SE	.2											.2	2.0
SSE	.3	.2										.5	2.8
S	1.0	.3										1.3	3.0
SSW	.7	.1										.8	2.7
SW	1.1	.4	.1									1.6	3.1
WSW	2.1	2.0										4.0	3.5
W	4.9	3.0	.4	.2								8.6	3.6
WNW	1.0	1.2	.7									2.8	5.0
NW	1.5	.3	.4									2.3	3.4
NNW	1.3	.3	.4									2.6	3.4
VARIABLE			.4	.1								.5	9.0
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	69.4	//////
TOTALS	19.5	8.1	2.6	.3								100.0	1.0

TOTAL NUMBER OF OBSERVATIONS: 9.2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10687 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: JUL HOURS(LST): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.9	.6	.2	.0								1.7	3.7
NNE	.7	.3	.1									1.1	3.2
NE	.5	.4										1.0	3.0
ENE	1.2	.7	.0									1.9	3.0
E	1.8	.6	.1									2.4	2.9
ESE	1.5	.6	.0									2.1	2.8
SE	1.1	.5	.1									1.7	3.0
SSE	1.3	.5	.1									2.0	3.1
S	1.4	1.2	.1									2.7	3.6
SSW	1.2	.8	.2									2.2	3.6
SW	1.3	1.2	.2									2.7	3.9
WSW	2.3	2.6	.7	.1								5.7	4.3
W	3.7	5.5	2.9	.3								12.5	5.1
WNW	2.0	2.8	2.4	.3								7.3	5.6
NW	1.8	2.3	1.1	.1	.0							5.4	4.7
NNW	2.0	1.4	.5	.0								4.0	4.0
VARIABLE	.0	.1	2.9	.5								3.5	8.7
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	40.3	//////
TOTALS	24.8	22.1	11.6	1.3	.0							100.0	2.7

TOTAL NUMBER OF OBSERVATIONS: 7388

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: AUG HOURS(LST): 0000-0200

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.1	.1										.2	3.0
NNE	.1											.1	1.0
NE	.2		.1									.3	3.7
ENE	.9	.2										1.1	2.4
E	.6	.6	.1									1.4	3.6
ESE	.1	.1										.2	3.0
SE	.1											.1	2.0
SSE	.2											.2	2.5
S	.4											.4	1.5
SSW	.1	.2										.3	3.7
SW	.3	.3										.6	2.8
WSW	1.5	.9	.3									2.7	3.4
W	3.1	3.9	1.3	.1								8.4	4.4
WNW	2.5	1.6	.4	.1								4.6	4.0
NW	1.1	.6	.1	.1								1.9	3.8
NNW	.9	.3	.3									1.5	4.2
VARIABLE													
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	75.8	//////
TOTALS	12.3	6.9	2.7	.3								100.0	.9

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: AUG HOURS(LST): 0300-0500

DIRECTION (DEGREES)	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
	WIND SPEED IN KNOTS												
N	.2	.1	.1									.4	4.0
NNE	.2	.1										.3	3.0
NE	.4											.4	2.0
ENE	.9	.3										1.2	2.4
E	.8	.3	.1									1.2	3.6
ESE	.8											.8	1.6
SE	.3											.3	1.7
SSE	.8	.1										.9	1.8
S		.1										.1	5.0
SSW	.2	.1										.3	2.3
SW	.9	.1										1.0	2.0
WSW	1.3	.9										2.2	3.0
W	5.1	1.6	1.0									7.6	3.4
WNW	1.8	1.4	.9	.1								4.2	4.6
NW	1.4	.5	.3									2.3	3.6
NNW	.4	.1										.5	2.6
VARIABLE			.3	.1								.4	9.8
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	75.9	//////
TOTALS	15.4	5.8	2.7	.2								100.0	.8

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: AUG HOURS(LST): 0600-0800

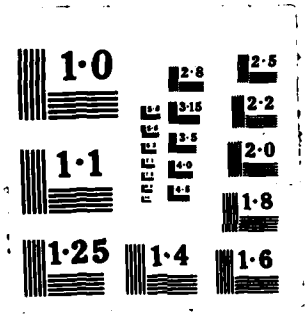
DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N													
NNE	.5											.5	1.8
NE	.2	.2										.4	3.3
ENE	.6	.2										.9	2.4
E	1.9	.6	.1									2.7	[illegible]
ESE	2.4	.1										2.5	1.9
SE	1.7											1.7	1.9
SSE	.9	.5	.1									[illegible]	[illegible]
S	.8	.2										[illegible]	[illegible]
SSW	1.0		.1									[illegible]	[illegible]
SW	1.0	.6										[illegible]	[illegible]
WSW	3.0	1.4	.4									[illegible]	[illegible]
W	4.4	3.0	1.4									[illegible]	[illegible]
WNW	1.7	1.9	1.5									[illegible]	[illegible]
NW	1.5	1.1	.9	.2								[illegible]	[illegible]
NNW	.5		.2									[illegible]	[illegible]
VARIABLE			.4										
CALM	//////////												
TOTALS	22.2	10.0	5.2	.2									

TOTAL NUMBER OF OBSERVATIONS: 93[illegible]

AD-A186 616 GRAFENWOHR AAF GERMANY REVISED UNIFORM SUMMARY OF SURFACE WEATHER OBSERVA..(U) AIR FORCE ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER SCOTT A.. OCT 87 2/3

UNCLASSIFIED USAFETAC/DS-87/063 F/G 4/2 NL

[redacted]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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER PERIOD OF RECORD: 77-86
MONTH: AUG HOURS (LST): 0900-1100

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.8	.1	.1									1.0	2.9
NNE	.4											.4	1.8
NE	.6											.6	2.3
ENE	1.4	1.0	.1									2.5	3.3
E	3.0	2.6	.2									5.8	3.5
ESE	4.3	2.3	.1									6.7	3.1
SE	3.2	1.4	.1									4.7	2.8
SSE	3.8	1.4	.3									5.5	3.2
S	3.2	1.5	.1									4.8	2.9
SSW	2.5	1.6	.1									4.2	3.2
SW	1.6	1.3	.3									3.2	3.9
WSW	2.4	2.4	1.2									5.9	4.5
W	3.9	6.2	3.8	.8								14.6	5.3
WNW	3.9	3.2	2.6	.2	.1							10.0	5.1
NW	2.0	1.8	1.5	.3								5.7	5.4
NNW	1.5	1.3	.2									3.0	3.2
VARIABLE		.1	3.0	.4								3.5	8.6
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	17.7	//////
TOTALS	38.5	26.2	13.8	1.7	.1							100.0	3.5

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-86
MONTH: AUG HOURS(LST): 1200-1400

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.9	.4	.2									1.5	3.8
NNE	1.3	.2										1.5	2.4
NE	.8	.2										1.0	2.7
ENE	1.2	1.0	.1									2.3	3.5
E	2.0	2.3	.2									4.5	3.7
ESE	2.3	2.3	.1									4.6	3.7
SE	2.5	2.7	.1									5.3	3.5
SSE	3.9	.9	.4									5.2	3.1
S	2.6	2.6	.9									6.0	4.0
SSW	1.9	2.8	.1									4.7	4.0
SW	1.1	1.7	.5									3.3	4.6
WSW	2.0	3.9	2.0	.1								8.1	5.1
W	4.5	6.9	6.1	1.3								18.8	5.9
WNW	2.5	4.9	2.7	.6								10.8	5.7
NW	1.4	3.2	1.5	.4								6.6	5.5
NNW	1.8	2.3	.2									4.3	4.0
VARIABLE		.4	6.3	.8	.2	.1						7.8	8.8
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	3.8	//////
TOTALS	32.5	38.6	21.6	3.2	.2	.1						100.0	4.8

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-86
MONTH: AUG HOURS (LST): 1500-1700

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	2.8	1.3	.1									4.2	3.0
NNE	1.1	.2										1.3	2.3
NE	.6	.9										1.5	3.8
ENE	1.4	1.2	.2									2.8	3.8
E	2.7	1.7	.3									4.7	3.4
ESE	2.5	1.4	.1									4.0	3.5
SE	1.5	1.9	.2									3.7	4.0
SSE	1.7	.5	.1									2.4	2.9
S	2.6	2.2										4.7	3.6
SSW	2.3	2.4										4.6	3.4
SW	1.0	1.6	.3									2.9	4.4
WSW	3.5	3.8	.9	.1								8.3	4.1
W	4.1	8.6	4.1	.4								17.2	5.3
WNW	2.4	5.1	4.4	.4								12.3	6.1
NW	1.5	4.3	1.3	.3								7.4	5.3
NNW	2.6	1.9	.8	.1								5.4	4.2
VARIABLE		.1	5.5	.9	.1							6.6	9.0
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	6.1	//////
TOTALS	34.2	39.0	16.3	2.3	.1							100.0	4.5

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: AUG HOURS(LST): 1800-2000

DIRECTION (DEGREES)	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
	WIND SPEED IN KNOTS												
N	1.7	.4										2.2	2.2
NNE	1.2											1.2	1.7
NE	1.3	.3										1.6	2.8
ENE	1.1	.9										1.9	3.2
E	3.5	1.0										4.5	2.5
ESE	1.4	.6										2.0	2.9
SE	1.0	.4										1.4	2.6
SSE	.5	.3										.9	3.0
S	1.3	.3										1.6	2.5
SSW	.6	.4										1.1	2.9
SW	1.9	.3	.1									2.4	2.7
WSW	3.5	1.7	.1									5.4	3.0
W	6.3	5.7	1.7	.2								14.0	4.2
WNW	2.3	3.5	2.2	.2								8.2	5.1
NW	2.2	2.3	1.0	.1								5.5	4.5
NNW	3.0	1.2	.2									4.4	3.0
VARIABLE			1.1	.3								1.4	9.2
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	40.4	//////
TOTALS	32.9	19.5	6.3	.9								100.0	2.2

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10687D STATION NAME: GRAFENWOHR AAF GFH

PERIOD OF RECORD: 77-86
MONTH: AUG HOURS(LST): 2100-2300

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.4	.3										.8	2.9
NNE	.5											.5	1.4
NE	.5											.5	2.2
ENE	.8	.4										1.2	2.6
E	1.0	.1										1.1	2.1
ESE	.6	.3										1.0	2.9
SE	.3	.1										.4	2.3
SSE	.3											.3	1.7
S	.5	.1										.6	1.8
SSW		.1										.1	4.0
SW	.3	.2										.5	3.6
WSW	1.5	1.1	.1									2.7	3.5
W	5.3	3.3	.6									9.2	3.5
WNW	2.3	1.7	.3									4.3	3.5
NW	1.9	.3	.1									2.4	2.5
NNW	1.0	.5										1.5	2.9
VARIABLE		.8										.8	8.0
CALM	////	////	////	////	////	////	////	////	////	////	////	72.0	////
TOTALS	17.3	8.7	1.9									100.0	.9

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER PERIOD OF RECORD: 77-86
MONTH: AUG HOURS(LST): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.9	.3	.1									1.3	3.0
NNE	.7	.1										.7	2.1
NE	.6	.2	.0									.8	2.9
ENE	1.0	.6	.1									1.7	3.2
E	1.9	1.2	.1									3.2	3.2
ESE	1.8	.9	.0									2.7	3.1
SE	1.1	.8	.1									2.2	3.1
SSE	1.5	.5	.1									2.1	3.0
S	1.9	.9	.1									2.9	3.3
SSW	1.1	1.0	.0									2.1	3.4
SW	1.0	.8	.2									1.9	3.7
WSW	2.4	2.0	.6	.0								5.0	4.0
W	4.6	4.9	2.5	.3								12.3	4.8
WNW	2.4	2.9	1.9	.2	.0							7.4	5.1
NW	1.6	1.8	.8	.2								4.4	4.8
NNW	1.5	1.0	.2	.0								2.7	3.6
VARIABLE		.1	2.2	.3	.0	.0						2.6	8.9
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	44.3	//////
TOTALS	25.6	19.8	9.1	1.1	.1	.0						100.0	2.4

TOTAL NUMBER OF OBSERVATIONS: 7440

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER PERIOD OF RECORD: 77-86
MONTH: SEP HOURS(LST): 0000-0200

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.3											.3	2.3
NNE	.2											.2	2.0
NE	.4	.1										.6	2.8
ENE	.7	.1										.8	2.6
E	1.5	.1										1.6	2.2
ESE	.6	.1										.7	1.8
SE	.4											.4	2.0
SSE	.2	.1										.3	3.0
S	.6	.4										1.0	2.9
SSW	.6	.6										1.1	3.2
SW	.9	.7										1.6	3.4
WSW	1.9	1.7	.2									3.9	3.8
W	3.9	5.1	1.8	.1								11.0	4.4
WNW	1.0	1.0	.4	.1								2.6	4.6
NW	1.2	.6	.2									2.0	3.5
NNW	1.6	.8	.1									2.5	3.0
VARIABLE			.4	.2								.7	9.0
CALM	//////////											68.9	//////
TOTALS	16.0	11.4	3.2	.4								100.0	1.2

TOTAL NUMBER OF OBSERVATIONS: 894

GLOBAL CLIMATOLOGY BRANCH — PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
USAFETAC — FROM HOURLY OBSERVATIONS
AIR WEATHER SERVICE/MAC

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER — PERIOD OF RECORD: 77-86
MONTH: SEP HOURS(LST): 0300-0500

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.7	.2										.9	3.8
NNE	.3											.3	1.3
NE	.4											.4	1.3
ENE	.9											.9	2.0
E	1.3	.2										1.6	2.1
ESE	.7											.7	1.5
SE	.6											.6	1.2
SSE	.8											.9	2.4
S	.6	.3										.9	2.8
SSW	.4											.4	2.0
SW	.6	.7										1.2	3.8
WSW	1.2	1.9	.3									3.5	4.5
W	4.1	3.7	1.2	.1								9.2	4.1
WNW	1.3	1.7	.8	.6								4.4	5.6
NW	.9	.8	.2									1.9	3.8
NNW	1.7	.2										1.9	2.1
VARIABLE			.8	.1								.9	9.5
CALM	//////////											70.0	//////
TOTALS	16.1	9.7	3.4	.8								100.0	1.2

TOTAL NUMBER OF OBSERVATIONS: 894

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: SEP HOURS(LST): 0600-0800

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.8	.3										1.1	2.7
NNE	.2											.2	1.0
NE	.3											.3	2.0
ENE	1.0	.4										1.5	2.6
E	1.8	.2										2.0	2.1
ESE	1.9											1.9	1.7
SE	.7											.7	1.7
SSE	1.1	.1										1.2	2.1
S	1.2	.8										2.0	3.2
SSW	.9	.7										1.6	3.3
SW	1.0	.8	.1									1.9	3.9
WSW	2.2	2.0	.8									5.0	4.0
W	3.6	5.7	2.1									11.4	4.6
WNW	1.5	1.3	.6	.2								3.6	4.5
NW	1.3	.7	.3	.2								2.6	4.7
NNW	1.5	.2	.1									1.8	2.6
VARIABLE			.8	.3								1.1	9.8
CALM	//////////											60.1	//////
TOTALS	21.0	13.3	4.8	.8								100.0	1.5

TOTAL NUMBER OF OBSERVATIONS: 895

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10687D STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-86
MONTH: SEP HOURS(LST): 0900-1100

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.7	.8										1.5	3.4
NNE	.4	.1										.6	2.4
NE	1.0	.4										1.5	2.6
ENE	1.8	1.3										3.1	3.0
E	2.5	1.6	.3									4.4	3.7
ESE	3.2	1.9	.4									5.6	3.4
SE	4.1	1.0	.1									5.3	2.6
SSE	2.7	1.1	.1									3.9	3.0
S	1.9	2.2	.4									4.6	4.1
SSW	1.6	2.1	.2									3.9	3.8
SW	.6	1.3	.2									2.1	4.6
WSW	1.2	3.9	1.9									7.0	5.2
W	2.0	6.3	3.8	1.1								13.2	6.1
WNW	1.5	2.3	2.9	.1								6.8	5.9
NW	.8	1.0	.7	.1								2.6	5.2
NNW	1.3	1.1	.3									2.8	3.9
VARIABLE		.1	4.8	.9								5.8	9.1
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	25.4	//////
TOTALS	27.3	28.7	16.3	2.2								100.0	3.6

TOTAL NUMBER OF OBSERVATIONS: 894

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: SEP HOURS(LST): 1200-1400

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	1.7	1.0										2.7	3.4
NNE	1.2	.2										1.5	2.8
NE	1.2	.4										1.7	3.1
ENE	1.7	1.5										3.1	3.3
E	3.6	2.2	.1									5.9	3.6
ESE	3.0	1.3	.2									4.6	3.2
SE	2.1	2.0										4.1	3.5
SSE	1.6	1.2	.1									2.9	3.4
S	3.0	4.1	.3									7.5	4.0
SSW	2.2	2.1	1.0									5.4	4.3
SW	1.9	2.2	1.3									5.5	4.7
WSW	2.0	2.3	1.9	.1								6.4	5.4
W	2.1	8.5	6.2	1.1								17.9	6.4
WNW	1.5	5.8	2.6	.7								8.5	6.1
NW	.7	1.2	2.1	.2								4.3	6.7
NNW	1.3	1.0	.4									2.8	3.9
VARIABLE		.6	7.7	2.3								10.6	9.0
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	4.7	//////
TOTALS	30.9	35.9	24.0	4.5								100.0	5.0

TOTAL NUMBER OF OBSERVATIONS: 849

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER PERIOD OF RECORD: 77-86
MONTH: SEP HOURS(LST): 1500-1700

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	1.2	.7	.1									2.0	3.2
NNE	1.7											1.7	1.8
NE	.7	.7										1.3	3.3
ENE	2.1	1.0										3.1	2.9
E	3.4	1.9										5.3	3.1
ESE	2.0	1.2										3.2	2.8
SE	1.8	1.3	.1									3.2	3.5
SSE	2.0	1.5	.1									3.6	3.3
S	2.0	2.3	.2									4.6	3.9
SSW	1.6	2.1	.4									4.1	4.2
SW	2.5	2.2	.2									4.9	3.8
WSW	2.9	2.8	1.2									6.9	4.6
W	3.2	10.4	6.4	.3								20.4	5.7
WNW	1.3	5.3	2.6	.6								9.7	5.8
NW	.8	3.2	1.7	.1								5.8	5.7
NNW	1.9	1.7	.2	.1								3.6	3.7
VARIABLE		.1	5.3	1.3	.1							6.8	9.1
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	9.6	//////
TOTALS	31.1	36.1	18.6	2.5	.1							100.0	4.9

TOTAL NUMBER OF OBSERVATIONS: 894

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER PERIOD OF RECORD: 77-86
MONTH: SEP HOURS(LST): 1800-2000

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.7	.2	.1									1.0	3.2
NNE	.6											.6	1.6
NE	1.0	.2										1.2	2.0
ENE	1.6	.1										1.7	2.0
E	2.1	.9										3.0	2.4
ESE	1.0											1.0	2.1
SE	.7	.1										.8	2.3
SSE	.6	.2										.8	3.0
S	1.2	.8										2.0	3.1
SSW	.6	.6										1.1	3.3
SW	1.6	.7										2.2	3.3
WSW	2.7	1.6	.4	.1								5.1	3.8
W	7.0	6.0	1.8									14.7	3.8
WNW	1.5	2.0	.7	.2								4.4	5.1
NW	1.9	1.0	.9	.1								3.9	4.6
NNW	1.5	1.3										2.8	3.4
VARIABLE			1.1	.1								1.2	9.0
CALM	//////////											52.4	//////
TOTALS	26.3	15.7	5.1	.6								100.0	1.8

TOTAL NUMBER OF OBSERVATIONS: 890

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10687J STATION NAME: GRAFENWOHR AAF GER PERIOD OF RECORD: 77-86
MONTH: SEP HOURS(LST): 2100-2300

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.2	.1										.3	2.0
NNE	.3											.3	1.0
NE	.6											.6	1.8
ENE	1.5											1.5	1.8
E	2.4	.3										2.7	2.2
ESE	.3											.3	1.3
SE	.1	.1										.2	3.5
SSE	.2	.1										.3	3.0
S	.6	.4										1.0	3.4
SSW	1.5	.6										2.0	2.9
SW	.8	.7										1.5	3.2
WSW	1.9	2.0	.3									4.3	3.7
W	3.4	4.8	1.3									9.6	4.3
WNW	1.0	2.0	.6									3.6	4.5
NW	1.3	1.3	.1									2.8	3.6
NNW	1.9	.2										2.1	2.4
VARIABLE			.8	.2								1.0	9.1
CALM	//////////											65.8	//////
TOTALS	18.0	12.8	3.1	.2								100.0	1.2

TOTAL NUMBER OF OBSERVATIONS: 869

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER PERIOD OF RECORD: 77-86
MONTH: SEP HOURS(LST): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.7	.4	.0									1.2	3.2
NNE	.6	.1										.7	2.0
NE	.7	.2										1.0	2.6
ENE	1.4	.6										2.0	2.7
E	2.1	.9	.1									3.3	2.9
ESE	1.6	.6	.1									2.3	2.8
SE	1.3	.6	.0									1.9	2.9
SSE	1.1	.5	.0									1.7	3.1
S	1.4	1.4	.1									3.0	3.7
SSW	1.2	1.1	.2									2.5	3.8
SW	1.2	1.2	.2									2.6	4.0
WSW	2.0	2.3	.9	.0								5.2	4.5
W	3.7	6.3	3.1	.3								13.4	5.1
WNW	1.3	2.4	1.4	.3								5.4	5.5
NW	1.1	1.2	.8	.1								3.2	5.0
NNW	1.6	.8	.2	.0								2.5	3.2
VARIABLE		.1	2.7	.7	.0							3.5	9.1
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	44.6	//////
TOTALS	23.3	20.7	9.8	1.5	.0							100.0	2.5

TOTAL NUMBER OF OBSERVATIONS: 7144

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: OCT HOURS (LST): 0000-0200

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.2	.1										.3	3.0
NNE	.3											.3	1.7
NE	.3											.3	2.3
ENE	1.4	.8	.1									2.3	3.0
E	2.5	2.4	.3									5.2	3.8
ESE	1.9	.1										2.0	2.0
SE	1.2											1.2	2.4
SSE	1.1	.5	.1	.2								1.9	4.1
S	1.3	.3	.1									1.7	3.3
SSW	1.1	.5	.3									1.9	3.6
SW	1.6	1.0										2.6	3.2
WSW	2.3	1.9	.8									5.0	4.2
W	1.4	5.0	1.6	.1								8.1	5.0
WNW	1.0	.4	.5									1.9	4.1
NW	.5	.5		.1								1.2	3.6
NNW	.8	.4										1.2	3.0
VARIABLE		.1	.8	.2								1.1	5.6
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	61.8	//////
TOTALS	18.8	14.1	4.6	.6								100.0	1.5

TOTAL NUMBER OF OBSERVATIONS: 929

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM POLRLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: OCT HOURS (LST): 0300-0500

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.1											.1	1.0
NNE	.2	.2										.4	3.1
NE	.8	.1										.9	2.5
ENE	1.7	1.1										2.8	3.0
E	4.4	1.1	.3									5.8	2.8
ESE	3.5	.2										3.8	1.8
SE	2.4	.4										2.8	2.3
SSE	1.0	.5										1.4	2.6
S	1.0	.6	.1									1.8	3.6
SSW	1.6	.4	.1									2.2	3.1
SW	1.5	.6	.3									2.6	3.4
WSW	1.3	2.6	.8									4.6	4.8
W	2.5	4.2	1.4	.2								8.3	4.9
WNW	.9	.6	.4									1.9	4.4
NW	1.0	.1	.1									1.2	2.7
NNW	.9	.5										1.4	2.8
VARIABLE			1.2	.5								1.7	9.6
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	56.3	//////
TOTALS	24.7	13.9	4.7	.8								100.0	1.6

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER PERIOD OF RECORD: 77-86
MONTH: OCT HOURS(LST): 0600-0800

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.9											.9	2.0
NNE	.5											.5	1.2
NE	.3	.2										.5	3.2
ENE	2.3	.3										2.6	2.3
E	4.0	1.9	.3									6.2	3.1
ESE	3.7	.5										4.2	2.0
SE	2.5	.5										3.0	2.4
SSE	1.7	.3										2.0	2.6
S	1.9	1.8										3.8	3.1
SSW	1.4	.8	.4									2.6	4.0
SW	1.1	.8	.2									2.0	3.9
WSW	3.1	1.8	.5									5.5	3.7
W	2.6	3.7	1.7	.1								8.1	5.0
WNW	1.3	.6	.4		.1							2.5	4.6
NW	.8	.3	.1									1.2	3.3
NNW	.4	.2	.1									.8	4.0
VARIABLE			1.4	.4								1.8	8.8
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	51.8	//////
TOTALS	29.4	13.9	5.3	.5	.1							100.0	1.8

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: OCT HOURS(LST): 0900-1100

DIRECTION (DEGREES)	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.8	.2										1.0	2.7
NNE		.1										.1	4.0
NE	.6	.4	.1									1.2	3.5
ENE	1.6	.9	.2									2.7	3.4
E	4.7	4.1	.3		.1							9.2	3.8
ESE	6.3	1.8	.1									8.3	2.5
SE	3.1	1.2	.1									4.4	2.9
SSE	2.0	2.5	.2									4.7	3.7
S	2.9	2.6	.6									6.1	3.8
SSW	1.4	1.3	.2									2.9	3.6
SW	1.3	1.3	.4									3.0	4.0
WSW	1.7	2.9	.8									5.4	4.4
W	2.5	4.6	3.1	.3								10.5	5.6
WNW	1.3	1.2	1.1		.2							3.8	5.6
NW	1.2	1.2	.4									2.8	4.2
NNW	1.1	.6	.1									1.8	3.5
VARIABLE			6.6	1.1								7.6	6.9
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	24.4	//////
TOTALS	32.6	26.9	14.4	1.4	.3							100.0	3.4

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: OCT HOURS(LST): 1200-1400

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.6	.4										1.1	3.2
NNE	.3	.2										.5	2.8
NE	.3	.4	.1									.9	4.5
ENE	1.2	1.4	.2									2.8	3.9
E	1.7	2.6	.6									4.9	4.7
ESE	3.3	3.2	.2									6.6	3.6
SE	3.7	4.4	.3									8.4	3.8
SSE	3.1	3.4	.3									6.9	3.8
S	3.0	4.5	.6									8.2	4.1
SSW	1.7	1.9	.4									4.1	3.9
SW	1.9	1.6	1.0									4.5	4.4
WSW	1.9	2.3	1.5									5.7	4.9
W	3.0	4.9	2.7	.3								11.0	5.2
WNW	2.0	2.7	1.4	.2								6.3	5.0
NW	1.2	1.8	1.3	.1								4.4	5.4
NNW	.9	1.8	.1									2.9	3.9
VARIABLE		.3	9.0	2.2	.5							12.0	4.3
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	8.7	//////
TOTALS	30.0	38.1	19.9	2.8	.5							100.0	4.6

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: OCT HOURS (LST): 1500-1700

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	1.7	.2										1.9	2.4
NNE	.4	.2										.6	2.7
NE	.4	.2										.6	2.8
ENE	1.9	.6	.1									2.7	3.0
E	3.4	3.2	.4									7.1	3.6
ESE	4.3	3.1	.1									7.5	3.2
SE	4.3	2.0	.1									6.5	3.1
SSE	2.5	2.0	.1									4.6	3.2
S	2.9	2.4	.4									5.7	3.7
SSW	1.4	1.4	.6									3.4	4.1
SW	1.6	1.1	.2									2.9	3.7
WSW	3.2	3.7	.3									7.2	3.8
W	3.0	5.7	1.9	.2								10.9	5.0
WNW	2.8	3.0	1.8	.1								7.7	4.8
NW	1.3	1.8	.3	.3								3.7	3.9
NNW	1.0	.5	.1									1.6	3.1
VARIABLE			6.7	.9		.1						7.6	6.2
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	17.6	//////
TOTALS	36.4	31.9	14.3	1.7		.1						100.0	3.5

TOTAL NUMBER OF OBSERVATIONS: 950

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: OCT HOURS(LST): 1800-2000

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	1.4	.2	.1									1.7	2.8
NNE	.2											.2	1.5
NE	1.0	.1										1.1	2.1
ENE	1.7	.5	.1									2.4	2.6
E	5.6	3.3	.2									9.1	3.2
ESE	2.2	.2	.2									2.6	2.5
SE	.9	.5										1.4	3.2
SSE	1.1	.3										1.4	2.5
S	1.0	.5										1.5	3.0
SSW	.8	.6	.2									1.6	4.1
SW	1.0	.4	.2									1.6	4.0
WSW	2.6	1.9	.4									4.9	3.6
W	3.3	3.8	1.7	.2								9.0	4.5
WNW	1.0	1.5	.8									3.2	4.8
NW	.8	.4	.1	.1								1.4	4.0
NNW	.8	.1										.9	2.4
VARIABLE			1.5	.8								2.3	9.5
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	53.7	//////
TOTALS	25.1	14.6	5.6	1.1								100.0	1.8

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: OCT HOURS(LST): 2100-2300

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.2	.4										.6	4.2
NNE	.6											.6	2.0
NE	.6	.1										.8	2.6
ENE	1.1	1.0										2.0	3.2
E	3.9	1.8	.6									5.9	3.5
ESE	1.4	.1	.1									1.6	2.3
SE	1.9	.2										2.0	2.1
SSE	1.0	.4	.1									1.5	3.0
S	1.2	.3	.1									1.6	3.2
SSW	1.0	.1	.3									1.4	4.2
SW	1.4	.6	.1									2.2	3.4
WSW	2.0	1.2	.3									3.5	3.8
W	2.3	4.5	1.3	.3	.1	.1						8.6	5.4
WNW	1.1	1.6	.5									3.2	4.5
NW	.6	.2										.9	2.4
NNW	.5	.2										.8	2.9
VARIABLE			1.5	.3								1.8	9.2
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	60.9	//////
TOTALS	20.3	12.9	5.1	.6	.1	.1						100.0	1.6

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM POLAR ORBIT OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: OCT HOURS(LST): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.7	.2	.0									1.0	2.7
NNE	.3	.1										.4	2.3
NE	.6	.2	.0									.9	3.0
ENE	1.6	.8	.1									2.5	3.1
E	3.7	2.6	.4		.0							6.7	3.5
ESE	3.3	1.2	.1									4.6	2.7
SE	2.5	1.2	.1									3.7	3.0
SSE	1.7	1.3	.1	.0								3.1	3.4
S	1.9	1.7	.3									3.8	3.7
SSW	1.3	.9	.3									2.5	3.8
SW	1.4	.9	.3									2.7	3.8
WSW	2.3	2.3	.7									5.2	4.1
W	2.6	4.5	1.9	.2	.0	.0						9.3	5.1
WNW	1.4	1.5	.9	.0	.0							3.8	4.8
NW	1.0	.9	.3	.1								2.1	4.1
NNW	.9	.6	.1									1.9	3.3
VARIABLE		.1	3.6	.8	.1	.0						4.5	9.2
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	41.9	//////
TOTALS	27.1	20.6	9.1	1.1	.1	.0						100.0	2.5

TOTAL NUMBER OF OBSERVATIONS: 7459

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER PERIOD OF RECORD: 77-86
MONTH: NOV HOURS(LST): 0000-0200

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.6	.1	.1									.8	3.1
NNE	.2											.2	1.0
NE	.3	.1										.5	2.8
ENE	2.0	.6										2.6	2.9
E	5.1	2.5	.2									7.8	3.1
ESE	2.3	.9										3.2	2.8
SE	2.2	1.2										3.3	2.8
SSE	1.1	1.1	.1									2.4	3.4
S	2.4	1.1	.1									3.6	3.1
SSW	1.0	1.0										2.0	3.5
SW	1.2	1.1	.1									2.5	3.5
WSW	2.4	1.5	1.6	.1								5.5	4.9
W	2.6	3.6	2.9	.6								9.7	5.6
WNW	1.4	1.0	.5	.2								3.0	4.8
NW	.6	.8	.7	.1								2.1	5.3
NNW	1.1	.5	.1									1.7	3.5
VARIABLE			2.7	1.2								4.0	10.1
CALM	//////////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	45.1	//////
TOTALS	26.3	17.2	9.1	2.3								100.0	2.4

TOTAL NUMBER OF OBSERVATIONS: 886

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER PERIOD OF RECORD: 77-86
MONTH: NOV HOURS(LST): 0300-0500

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.7	.2										.9	2.9
NNE		.1										.1	6.0
NE	.3	.3										.7	3.2
ENE	1.2	1.8	.1									3.2	3.7
E	5.1	2.8	.1									8.0	3.0
ESE	3.5	1.4										4.9	2.5
SE	1.7	.6										2.3	2.9
SSE	2.2	.6										2.6	2.4
S	2.1	1.6										3.7	3.2
SSW	1.1	1.4	.2									2.7	3.6
SW	1.1	1.1	.3									2.6	3.8
WSW	1.7	1.7	1.0	.3								4.7	5.3
W	3.6	3.8	2.0	.3								9.8	4.9
WNW	1.1	1.4	.6	.2								3.3	5.1
NW	.6	1.2	.5	.1								2.4	4.9
NNW	.5	.3										.8	3.1
VARIABLE			3.6	.7	.1		.1					4.4	10.2
CALM	//////////											42.9	//////
TOTALS	26.4	20.3	7.4	1.7	.1		.1					100.0	2.5

TOTAL NUMBER OF OBSERVATIONS: 965

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER PERIOD OF RECORD: 77-86
MONTH: NOV HOURS(LST): 0600-0800

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.2	.2										.5	3.5
NNE	.3											.3	2.3
NE	.2	.2										.5	3.5
ENE	1.0	1.6	.1									2.7	4.1
E	3.8	2.8										6.6	3.2
ESE	4.2	.9										5.1	2.3
SE	1.8	.9										2.7	2.8
SSE	2.0	.8										2.8	2.8
S	2.7	1.2	.1									4.1	3.3
SSW	2.1	.9										3.0	2.7
SW	2.8	2.1										5.0	3.1
WSW	2.7	1.2	.7	.3								5.0	4.2
W	3.4	2.9	2.0	.9								9.2	5.4
WNW	1.9	1.7	.5	.2	.1							4.4	4.7
NW	.9	1.4	.3	.3								2.9	5.2
NNW	1.0	.2										1.2	2.6
VARIABLE		.1	3.4	.8	.3	.2						4.8	10.6
CALM	//////////											39.2	//////
TOTALS	31.2	19.3	7.1	2.6	.5	.2						100.0	2.6

TOTAL NUMBER OF OBSERVATIONS: 888

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106R70 STATION NAME: GRAFENWOHR AAF GER PERIOD OF RECORD: 77-86
MONTH: NOV HOURS(LST): 0900-1100

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.8	.6	.1									1.5	3.5
NNE	.1	.1										.2	3.0
NE	.9	.5										1.4	2.8
ENE	1.0	1.0	.1									2.1	3.8
E	4.4	2.7	.5									7.5	3.7
ESE	5.4	1.1										6.5	2.4
SE	3.3	1.6										4.8	2.8
SSE	1.9	1.5	.1									3.5	3.3
S	3.9	2.1	.6									6.6	3.4
SSW	2.9	1.7	.3									5.0	3.4
SW	1.5	1.8	.5									3.7	4.2
WSW	2.3	3.4	1.2	.5								7.9	4.7
W	2.4	3.9	2.9	1.1								10.4	6.0
WNW	1.4	2.3	.6		.1							4.3	5.0
NW	.9	1.7	.6	.1								3.3	4.9
NNW	.8	.7		.1								1.6	3.9
VARIABLE			5.3	1.2	.3		.1					7.0	9.9
CALM	//////////											22.7	//////
TOTALS	34.3	26.6	12.7	3.0	.5		.1					100.0	3.5

TOTAL NUMBER OF OBSERVATIONS: 888

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER PERIOD OF RECORD: 77-86
MONTH: NOV HOURS(LST): 1200-1400

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.2	.7	.2									1.1	5.7
NNE	.6	.2	.1									.9	2.9
NE	.7	.6	.2									1.5	4.2
ENE	.7	.8	.3									1.8	4.8
E	1.7	2.7	.3									4.7	4.1
ESE	4.4	2.5	.1									7.0	3.1
SE	2.8	1.9	.1									4.8	3.3
SSE	3.6	1.8	.3									5.7	3.2
S	3.7	3.8	.5									8.0	3.6
SSW	1.8	3.4	.5									5.6	4.3
SW	1.6	1.1	.3									3.0	3.9
WSW	1.8	3.9	1.5	.5								7.7	5.4
W	2.5	7.0	3.0	1.5								14.0	6.1
WNW	1.2	2.5	1.1	.2								5.2	5.7
NW	1.2	2.0	1.2	.1								4.6	5.4
NNW	2.0	1.4	.5									3.8	3.7
VARIABLE		.2	6.7	1.6	.3	.1						8.9	9.7
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	11.5	//////
TOTALS	30.6	36.5	17.0	3.9	.3	.1						100.0	4.4

TOTAL NUMBER OF OBSERVATIONS: 887

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106670 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: NOV HOURS(LST): 1500-1700

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.9	.6										1.5	3.0
NNE	.6	.2										.8	3.1
NE	.7	.2										.9	2.5
ENE	.5	.9	.1									1.5	4.2
E	3.2	4.7	.3									8.2	3.9
ESE	3.0	1.2	.1									4.4	2.8
SE	3.6	1.5										5.1	2.7
SSE	2.8	1.8	.2									4.8	3.3
S	3.8	2.0	.2									6.1	3.3
SSW	2.4	1.7										4.1	3.3
SW	2.5	.9	.2									3.6	3.2
WSW	2.9	3.3	.8	.2								7.1	4.6
W	5.1	6.6	2.1	.3								14.2	4.7
WNW	1.5	1.2	1.0	.2								3.9	5.6
NW	1.7	1.7	1.1	.1								4.6	4.9
NNW	1.9	.6	.1									2.6	3.1
VARIABLE			4.5	.6	.2							5.3	8.9
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	21.4	//////
TOTALS	36.9	29.2	10.9	1.5	.2							100.0	3.3

TOTAL NUMBER OF OBSERVATIONS: 888

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: NOV HOURS (LST): 1800-2000

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.9	.3										1.2	2.7
NNE													
NE	.3	.3										.7	3.2
ENE	.9	.6	.1									1.6	3.6
E	4.3	3.7	.7									8.7	3.7
ESE	3.8	.3										4.2	2.0
SE	2.5	.8	.1									3.4	2.8
SSE	1.9	1.1										3.0	2.8
S	3.4	1.5	.2									5.1	3.0
SSW	1.5	.3	.1									1.9	2.9
SW	2.0	1.6										3.6	3.3
WSW	1.7	2.3	.8	.2								5.0	5.0
W	2.3	5.2	2.4	.3								10.1	5.4
WNW	1.1	1.2	.2									2.6	4.1
NW	1.1	1.1	.3	.2								2.8	4.6
NNW	1.5	.5	.3	.1								2.4	4.0
VARIABLE		.1	3.2	.5	.2							3.9	9.4
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	39.9	//////
TOTALS	29.2	20.9	8.4	1.4	.2							100.0	2.5

TOTAL NUMBER OF OBSERVATIONS: 868

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106470 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: NOV HOURS(LST): 2100-2300

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.7	.5	.1									1.2	3.6
NNE	.1	.1										.2	4.0
NE	.1											.1	2.0
ENE	1.6	.7	.1									2.4	3.3
E	5.1	3.6	.6									9.2	3.5
ESE	3.2	.6										3.7	2.3
SE	1.5	.3										1.8	2.6
SSE	1.9	.9										2.8	2.6
S	2.5	1.4										3.9	3.0
SSW	1.7	.9	.1									2.7	3.4
SW	1.1	.9	.1									2.1	3.7
WSW	1.4	2.5	.6									4.4	4.4
W	2.3	4.4	4.5	.3								11.5	6.0
WNW	1.4	1.0	.3									2.7	4.0
NW	1.1	.7	.7									2.5	4.5
NNW	.5	.5	.2	.1								1.2	4.7
VARIABLE			3.5	.3								3.8	8.5
CALM	//////////											43.6	//////
TOTALS	25.9	18.2	10.8	.4								100.0	2.4

TOTAL NUMBER OF OBSERVATIONS: 867

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-86
MONTH: NOV HOURS(LST): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.6	.4	.1									1.1	3.5
NNE	.2	.1	.0									.4	3.0
NE	.5	.3	.0									.8	3.2
ENE	1.1	1.0	.1									2.2	3.7
E	4.1	3.2	.3									7.6	3.5
ESE	3.7	1.1	.0									4.9	2.6
SE	2.4	1.1	.0									3.5	2.9
SSE	2.2	1.2	.1									3.5	3.0
S	3.1	1.8	.2									5.1	3.3
SSW	1.8	1.4	.2									3.4	3.5
SW	1.7	1.3	.2									3.3	3.6
WSW	2.2	2.5	1.0	.3								5.9	4.8
W	3.0	4.7	2.7	.7								11.1	5.5
WNW	1.4	1.5	.6	.2	.0							3.7	5.0
NW	1.0	1.3	.7	.1								3.2	5.0
NNW	1.2	.6	.2	.0								1.9	3.6
VARIABLE		.1	4.1	.8	.2	.1	.0					5.3	9.7
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	33.3	//////
TOTALS	30.1	23.6	10.6	2.1	.2	.1	.0					100.0	3.0

TOTAL NUMBER OF OBSERVATIONS: 7097

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM POLAR OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: DEC HOURS(LST): 0000-0200

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.7	.3										.9	2.7
NNE	.4	.3										.7	2.8
NE	.3	.1										.4	4.0
ENE	.3	.7	.3									1.2	5.2
E	4.6	1.8	.3									6.6	3.1
ESE	5.7	.8										6.5	2.3
SE	3.7	1.2										4.8	2.9
SSE	2.1	.3	.3									2.6	2.8
S	1.7	1.6	.3									3.5	3.6
SSW	1.0	1.0	.1	.1								2.3	4.2
SW	1.0	1.3										2.3	3.5
WSW	2.1	1.6	1.8		.3							5.7	5.7
W	2.0	5.0	6.1	1.0	.1							14.2	6.7
WNW	.7	1.7	1.3	.5								4.2	6.6
NW	.5	2.0	.7									3.1	4.9
NNW	.2	.7										.9	4.4
VARIABLE			3.0	1.4								4.4	10.0
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	35.5	//////
TOTALS	26.9	20.1	14.1	3.1	.4							100.0	3.2

TOTAL NUMBER OF OBSERVATIONS: 767

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: DEC HOURS(LST): 0300-0500

DIRECTION (DEGREES)	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
	WIND SPEED IN KNOTS												
N	.9	.4										1.2	2.8
NNE	.5	.1										.6	1.8
NE		.2										.2	4.5
ENE	.9	.6	.4									1.9	4.1
E	5.1	2.4	.2									7.7	3.0
ESE	5.3	1.6	.4									7.3	2.9
SE	3.9	.6										4.5	2.2
SSE	1.6	.6	.1									2.4	3.1
S	2.4	2.2	.2									4.9	3.5
SSW	.7	1.1	.1									2.0	3.8
SW	1.4	.7	.7									2.9	4.4
WSW	2.1	2.5	1.2	.1								6.0	4.7
W	2.0	4.8	5.1	2.4								14.5	7.0
WNW	.6	1.1	1.5		.1							3.4	6.4
NW	1.6	1.5	.2									3.4	4.0
NNW	.5	.4										.9	3.4
VARIABLE			2.7	1.0	.1							3.9	9.9
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	32.8	//////
TOTALS	29.4	21.0	13.0	[illegible]	.2							100.0	3.2

TOTAL NUMBER OF OBSERVATIONS: 805

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: DEC HOURS(LST): 0600-0800

DIRECTION (DEGREES)	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.6	.2										.8	2.4
NNE	.2											.2	1.5
NE	.5											.5	2.3
ENE	1.6	.5	.1									2.2	2.9
E	5.0	2.6	.2									7.8	3.1
ESE	5.1	.9										6.1	2.6
SE	2.7	.4	.1									3.2	2.6
SSE	2.2	.6	.1									2.9	3.2
S	2.5	1.9	.1									4.4	3.6
SSW	1.3	1.2	.4									2.8	4.2
SW	1.3	1.4	.1									2.8	3.7
WSW	1.5	2.1	1.4									5.0	5.2
W	1.3	4.6	2.9	1.6								12.0	6.9
WNW	1.1	1.7	.7	.4								3.4	5.5
NW	1.1	.7	.1	.1								2.0	3.9
NNW	.5	.4	.4									1.3	4.9
VARIABLE			.1	1.4	.1							3.6	1[illegible].7
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	38.9	//////
TOTALS	28.7	18.9	9.7	3.6	.1							100.0	2.9

TOTAL NUMBER OF OBSERVATIONS: 856

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 16687D STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: DEC HOURS (LST): 0900-1100

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.5	.3	.1									.9	3.9
NNE													
NE	.9	.2										1.2	3.0
ENE	1.4	.1										1.5	2.5
E	4.1	4.4	.6									9.1	3.8
ESE	6.5	1.2	.1									7.8	2.3
SE	3.7	.8	.1									4.7	2.5
SSE	1.7	1.0										2.8	3.0
S	3.0	2.4	.5									5.9	3.9
SSW	1.5	1.2	.1									2.9	3.7
SW	1.2	1.9	.5	.1								3.6	4.9
WSW	1.2	3.9	.9	.1								5.6	5.2
W	2.2	4.5	5.7	1.7	.1	.2						14.5	7.4
WNW	1.0	.1	.7	.3								4.2	5.5
NW	.7	.6	.5	.4								2.2	6.2
NNW	.6	.3	.1									1.0	3.4
VARIABLE			2.6	1.5	.1							4.2	10.1
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	28.0	//////
TOTALS	30.2	24.5	12.4	4.3	.2	.2						100.0	3.5

TOTAL NUMBER OF OBSERVATIONS: 860

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER PERIOD OF RECORD: 77-86
MONTH: DEC HOURS(LST): 1200-1400

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.6	.5										1.1	3.1
NNE	.1											.1	1.0
NE	1.1	.8										1.9	3.3
ENE	1.1	1.2	.1									2.4	3.7
E	3.6	3.4	.1									7.2	3.7
ESE	5.3	3.2	.1									8.6	3.2
SE	3.5	1.5	.1									5.2	3.0
SSE	2.4	1.5										3.9	3.0
S	2.7	2.7	.5									5.9	3.8
SSW	2.1	2.1	.2									4.5	3.8
SW	1.3	1.4	.9	.1								3.8	5.1
WSW	2.1	2.6	1.4	.2								6.3	4.9
W	2.1	4.7	5.8	2.2	.5							15.3	7.6
WNW	.6	1.3	1.9	.4								4.1	7.0
NW	.8	2.1	.7	.2								3.9	5.3
NNW	.6	1.2	.1									1.9	4.1
VARIABLE			4.8	1.5	.4							6.7	10.1
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	17.5	//////
TOTALS	30.0	30.2	16.8	4.7	.8							100.0	4.3

TOTAL NUMBER OF OBSERVATIONS: 851

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: DEC HOURS(LST): 1500-1700

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.9	.2										1.1	2.8
NNE													
NE	.5	.1										.6	3.2
ENE	.9	.9										1.9	3.2
E	4.5	3.9	.6									9.0	3.6
ESE	5.7	2.5										8.2	2.9
SE	3.0	1.1	.1									4.1	2.7
SSE	2.5	.9	.4									3.8	3.5
S	1.5	1.9										3.4	3.7
SSW	1.3	1.7	.1									3.1	3.8
SW	1.1	1.7	.2									3.2	4.2
WSW	1.5	3.1	.9									5.6	4.9
W	3.3	4.7	7.5	1.8	.4							17.7	7.0
WNW	.6	2.0	.8	.5	.1							4.0	6.7
NW	.6	1.4	.5									2.5	4.7
NNW	1.2	.1										1.3	2.4
VARIABLE	.1	.1	3.8	.7	.4							5.1	9.5
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	25.5	//////
TOTALS	29.4	26.4	14.9	3.0	.8							100.0	3.7

TOTAL NUMBER OF OBSERVATIONS: 844

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: DEC HOURS(LST): 1800-2000

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.2											.2	2.0
NNE	.2	.1										.4	3.3
NE	.2											.2	2.5
ENE	.8	.8	.2									1.9	4.1
E	4.0	2.8	.6									7.4	3.5
ESE	5.6	1.1	.1									6.8	2.4
SE	3.1	.8	.2									4.2	2.7
SSE	2.1	.7	.5									3.3	3.5
S	1.1	1.3	.6									3.0	4.4
SSW	.8	.8	.1									1.8	3.9
SW	1.3	1.5	1.0									3.8	4.7
WSW	1.9	1.9	1.8	.1								5.8	5.2
W	3.0	5.0	5.7	1.5	.4							15.5	6.8
WNW	1.1	1.5	.8	.6								4.0	6.8
NW	.9	.6	.4									1.8	4.0
NNW	.5	.5	.1									1.1	3.7
VARIABLE			2.1	1.2	.1							3.4	10.0
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	35.4	//////
TOTALS	27.0	19.6	14.3	3.4	.5							100.0	3.2

TOTAL NUMBER OF OBSERVATIONS: 826

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: DEC HOURS(LST): 2100-2300

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.6											.6	1.6
NNE	.5											.5	1.8
NE	.3	.5										.8	3.8
ENE	.9	.4										1.3	3.1
E	4.2	2.4	1.0									7.7	3.6
ESE	4.5	.9										5.4	2.3
SE	2.3	.9										3.2	2.8
SSE	2.2	.6	.1									3.0	2.9
S	1.3	2.6	.1									4.0	4.1
SSW	1.3	1.0	.5									2.8	4.4
SW	1.0	1.0	1.0									3.1	5.3
WSW	1.5	2.8	1.0	.3								5.7	5.2
W	2.2	4.5	7.6	1.7								15.9	7.1
WNW	.8	.6	1.0	.1	.1							2.7	6.1
NW	.8	1.3	.6	.4								3.1	5.9
NNW	.4	.1	.4									.9	4.7
VARIABLE		.1	2.3	.3								2.7	8.6
CALM	//////////											36.6	//////
TOTALS	24.8	19.9	15.8	2.7	.1							100.0	3.2

TOTAL NUMBER OF OBSERVATIONS: 778

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: DEC HOURS(LST): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.6	.2	.0									.9	2.8
NNE	.2	.1										.3	2.2
NE	.5	.3										.7	3.3
ENE	1.0	.7	.1									1.8	3.5
E	4.4	3.0	.5									7.8	3.4
ESE	5.5	1.5	.1									7.1	2.6
SE	3.2	.9	.1									4.2	2.7
SSE	2.1	.8	.2									3.1	3.2
S	2.0	2.1	.3									4.4	3.8
SSW	1.3	1.3	.2	.0								2.8	3.9
SW	1.2	1.4	.6	.0								3.2	4.5
WSW	1.7	2.5	1.3	.1	.0							5.7	5.1
W	2.3	4.7	5.9	1.8	.2	.0						14.9	7.1
WNW	.8	1.5	1.1	.3	.0							3.7	6.3
NW	.9	1.7	.5	.2								2.7	4.9
NNW	.6	.5	.1									1.2	3.9
VARIABLE	.0	.0	2.9	1.1	.2							4.3	9.9
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	31.1	//////
TOTALS	28.4	22.7	13.9	3.6	.4	.0						100.0	3.4

TOTAL NUMBER OF OBSERVATIONS: 6567

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10680 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-87
MONTH: ALL HOURS(LST): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.9	.6	.1	.0								1.5	3.4
NNE	.6	.2	.0									.9	2.8
NE	.9	.5	.0	.0								1.5	3.3
ENE	1.5	1.3	.3	.0								3.1	3.7
E	3.2	2.5	.4	.0	.0							6.1	3.6
ESE	2.8	1.2	.1	.0								4.1	2.9
SE	1.8	.9	.1	.0								2.7	3.1
SSE	1.4	.7	.1	.0								2.2	3.1
S	1.6	1.4	.2	.0								3.2	3.7
SSW	1.2	1.0	.2	.0								2.4	3.8
SW	1.1	1.1	.3	.0								2.5	4.1
WSW	1.8	2.1	.9	.1	.0							4.9	4.6
W	3.0	4.9	3.0	.6	.0	.0						11.6	5.6
WNW	1.4	2.1	1.5	.3	.0							5.4	5.7
NW	1.2	1.4	.8	.1	.0							3.6	5.0
NNW	1.4	.9	.3	.0								2.6	3.8
VARIABLE	.0	.1	3.7	.9	.1	.0	.0					4.7	9.3
CALM	//////////											37.0	//////
TOTALS	25.8	22.9	12.0	2.2	.1	.0	.0					100.0	2.9

TOTAL NUMBER OF OBSERVATIONS: 86040

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

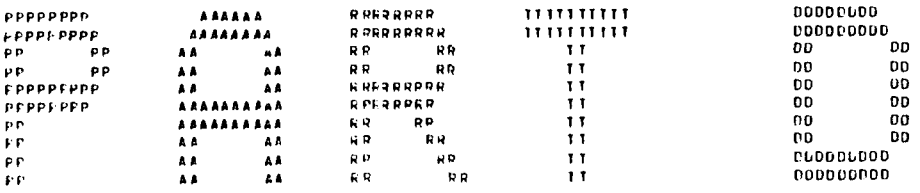
PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER PERIOD OF RECORD: 77-87
MONTH: ALL HOURS(LST): ALL

CEILINGS 200 TO 1400 FEET WITH VISIBILTIES 1/2 MILE OR MORE
AND/OR
CEILINGS 200 FEET OR MORE WITH VISIBILTIES 1/2 TO 2-1/2 MILES

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N	.6	.2	.0	.0								.9	3.0
NNE	.4	.1	.0									.5	2.4
NE	.7	.3	.0									1.0	3.0
ENE	1.3	1.0	.3									2.5	3.7
E	3.3	1.4	.2	.0								4.9	3.0
ESE	4.0	.8	.0									4.9	2.4
SE	2.6	1.0	.0	.0								3.6	2.8
SSE	1.8	.8	.1									2.7	3.0
S	1.9	1.4	.1									3.5	3.3
SSW	1.1	.7	.1	.0								2.0	3.4
SW	1.1	.9	.2	.0								2.2	3.8
WSW	2.0	2.0	.6	.1	.0							4.5	4.2
W	3.5	5.0	2.9	.5	.0							11.8	5.2
WNW	1.6	2.1	1.1	.2	.0							5.0	5.1
NW	1.3	1.2	.4	.1	.0							3.0	4.4
NNW	1.1	.5	.1	.0								1.8	3.4
VARIABLE		.0	1.6	.4	.0	.0						2.1	9.4
CALM	////	////	////	////	////	////	////	////	////	////	////	43.1	////
TOTALS	28.3	19.3	7.9	1.3	.0	.0						100.0	2.3

TOTAL NUMBER OF OBSERVATIONS: 20160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CEILING VERSUS VISIBILITY AND SKY COVER SUMMARIES

CEILING VERSUS VISIBILITY SUMMARY

THIS SUMMARY IS A BIVARIATE FREQUENCY DISTRIBUTION BY CLASSES OF CEILING FROM "0" THROUGH EQUAL TO OR GREATER THAN 20,000 FEET AND AS A SEPARATE CLASS "NO CEILING", VERSUS VISIBILITY IN 16 CLASSES FROM ZERO THROUGH EQUAL TO OR GREATER THAN 10 MILES.

DATA DERIVED FROM HOURLY OBSERVATIONS.

FREQUENCY DISTRIBUTION PRESENTED BY THE STANDARD 3-HOUR TIME GROUPS BY MONTH, MONTHLY AND ANNUALLY (ALL YEARS COMBINED).

NOTES:

BEGINNING IN 1968, METAR STATIONS REPORTED VISIBILITIES TO 6 MILES AND GREATER THAN 6 MILES. THEREFORE THE COLUMN FOR VISIBILITIES EQUAL TO OR GREATER THAN 10 MILES APPEAR BLANK.

AS A RULE, AIRWAYS STATIONS NORMALLY REPORT VISIBILITIES TO 6 MILES AND 7 OR GREATER, HOWEVER SOME STATIONS REPORT HIGHER VALUES. THEREFORE, THE 10 MILE VISIBILITY COLUMN SOMETIMES CONTAIN SMALL PERCENTAGE VALUES. HOWEVER, THESE VALUES ARE OF LITTLE MEANING AND SHOULD BE DISREGARDED.

FOR METAR CIVILIAN STATIONS REPORTING "CAVOK", ALL CEILINGS ABOVE 5000 FEET WERE SUPPESSED TO 5000 FEET. THEREFORE, NO PERCENT VALUES APPEAR ABOVE 5000 FEET.

SKY COVER SUMMARY

PRESENTS PERCENTAGES OF SKY COVER IN EITHER 10THS OF COVERAGE OR "AIRWAYS CLASSIFICATIONS".

DATA SUMMARIZED BY THE STANDARD 3-HOUR TIME GROUPS BY MONTH, MONTHLY AND ANNUALLY (ALL YEARS COMBINED).

ALSO PRESENTED ARE MEAN SKY COVERS.

FOR AIRWAY STATIONS, THE CONVERSION FROM THE AIRWAYS DESIGNATIONS TO 10THS FOR PRESENTATION ARE:

CLEAR	-	0/10
SCATTERED	-	3/10
BROKEN	-	9/10
OVERCAST	-	10/10
OBSCURED	-	10/10

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: JAN HOURS(LST): 0000-0200

CEILING IN FEET	GE 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
		VISIBILITY IN HUNDREDS OF METERS														
NO CEIL		7.0	8.4	11.8	15.1	15.9	17.1	18.3	18.4	19.8	20.1	20.2	20.2	20.9	20.9	20.9
GE 20000		7.9	9.6	13.2	16.6	17.4	18.6	19.8	20.0	21.3	21.6	21.7	21.7	22.4	22.4	22.4
GE 18000		8.5	10.2	14.2	17.5	18.3	19.5	20.8	20.9	22.3	22.5	22.6	22.6	23.3	23.3	23.3
GE 16000		8.5	10.2	14.2	17.5	18.3	19.5	20.8	20.9	22.3	22.5	22.6	22.6	23.3	23.3	23.3
GE 14000		8.5	10.3	14.3	17.6	18.4	19.6	20.9	21.0	22.4	22.6	22.7	22.7	23.4	23.4	23.4
GE 12000		8.6	10.4	14.4	17.7	18.6	19.7	21.0	21.1	22.5	22.7	22.9	22.9	23.5	23.5	23.5
GE 10000		9.0	10.9	15.4	18.8	19.6	21.1	22.5	22.6	24.2	24.5	24.6	24.6	25.3	25.3	25.3
GE 9000		9.3	11.1	15.7	19.0	19.8	21.3	22.7	22.9	24.5	24.7	24.8	24.8	25.5	25.5	25.5
GE 8000		10.6	12.4	17.2	20.6	21.7	23.3	24.7	24.8	26.5	26.7	26.8	26.8	27.5	27.5	27.5
GE 7000		11.4	13.2	18.6	22.4	23.4	25.4	26.9	27.0	28.7	28.9	29.0	29.0	29.7	29.7	29.7
GE 6000		11.8	13.7	19.0	22.9	23.9	25.9	27.4	27.5	29.1	29.4	29.5	29.5	30.2	30.2	30.2
GE 5000		13.0	14.8	20.4	24.4	25.5	27.5	29.0	29.4	31.0	31.2	31.3	31.4	32.1	32.1	32.1
GE 4500		14.4	16.2	22.4	26.5	27.6	29.8	31.3	31.7	33.3	33.5	33.6	33.8	34.5	34.5	34.5
GE 4000		16.1	18.0	24.1	28.9	30.0	32.4	34.0	34.5	36.1	36.3	36.4	36.5	37.2	37.2	37.2
GE 3500		17.2	19.4	25.8	30.5	31.7	34.2	36.2	36.8	38.4	38.7	39.0	39.1	39.8	39.8	39.8
GE 3000		20.0	22.5	29.9	35.0	36.2	39.0	41.4	42.0	43.9	44.2	44.4	44.8	45.6	45.7	45.7
GE 2500		22.2	24.7	32.6	37.9	39.1	42.6	45.2	45.8	47.8	48.1	48.4	48.7	49.5	49.7	49.7
GE 2000		24.4	27.3	37.6	44.1	45.4	49.4	53.0	53.9	56.5	56.8	57.1	57.4	58.2	58.4	58.4
GE 1800		24.9	28.1	38.9	45.6	46.9	51.2	54.9	55.9	58.5	58.8	59.0	59.4	60.2	60.3	60.3
GE 1500		26.5	30.4	42.2	50.0	51.7	57.7	62.3	63.3	65.9	66.2	66.5	66.8	67.6	67.7	67.7
GE 1200		27.1	31.9	45.6	53.7	55.7	62.5	67.4	68.6	71.9	72.3	72.7	73.1	73.9	74.0	74.0
GE 1000		28.1	33.4	47.7	56.0	58.4	65.8	71.8	73.0	77.3	78.0	78.5	79.0	79.9	80.0	80.0
GE 900		28.2	33.9	49.2	57.5	59.9	67.4	73.5	74.7	79.2	80.0	80.6	81.1	82.0	82.1	82.1
GE 800		28.3	34.1	50.3	59.0	61.4	69.4	75.5	76.7	81.2	82.0	82.6	83.4	84.3	84.5	84.5
GE 700		28.3	34.1	50.5	59.2	61.5	70.1	76.8	78.2	82.9	83.9	84.8	85.4	86.3	86.4	86.4
GE 600		28.3	34.1	50.7	59.5	62.1	71.0	78.0	79.6	84.8	85.7	86.7	87.2	88.4	88.5	88.5
GE 500		28.3	34.3	50.9	59.7	62.3	71.2	78.5	80.6	86.1	87.4	88.5	89.7	90.8	91.0	91.0
GE 400		28.3	34.3	51.0	60.0	62.5	72.2	80.3	82.4	88.9	90.3	91.6	92.8	94.1	94.2	94.2
GE 300		28.3	34.3	51.0	60.2	62.6	72.7	81.0	83.2	89.9	91.3	92.9	94.1	95.6	96.1	96.1
GE 200		28.3	34.3	51.0	60.2	62.8	72.7	81.2	83.4	90.3	91.8	93.7	94.9	97.0	97.7	98.0
GE 100		28.3	34.3	51.0	60.2	62.8	72.9	81.3	83.5	90.6	92.2	94.4	95.6	97.8	98.6	100.0
GE 0		28.3	34.3	51.0	60.2	62.8	72.9	81.3	83.5	90.6	92.2	94.4	95.6	97.8	98.6	100.0

TOTAL NUMBER OF OBSERVATIONS: 862

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 78-87
MONTH: JAN HOURS(LST): 0300-0500

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	6.2	7.9	11.6	14.9	16.6	17.5	18.4	18.7	19.5	19.6	19.7	19.7	20.3	20.6	20.6	
GE 20000	6.9	9.1	12.9	16.2	17.3	18.8	19.7	20.1	20.9	21.0	21.1	21.1	21.7	21.9	21.9	
GE 18000	6.9	9.1	13.1	16.4	17.6	19.1	20.0	20.3	21.1	21.2	21.4	21.4	21.9	22.2	22.2	
GE 16000	6.9	9.1	13.1	16.4	17.6	19.1	20.0	20.3	21.1	21.2	21.4	21.4	21.9	22.2	22.2	
GE 14000	6.9	9.1	13.1	16.4	17.6	19.1	20.0	20.3	21.1	21.2	21.4	21.4	21.9	22.2	22.2	
GE 12000	7.0	9.2	13.2	16.5	17.7	19.2	20.1	20.4	21.2	21.4	21.5	21.5	22.0	22.3	22.3	
GE 10000	7.6	9.8	14.4	17.7	18.8	20.3	21.2	21.6	22.7	22.8	23.0	23.0	23.5	23.8	23.8	
GE 9000	7.7	9.9	14.5	17.8	18.9	20.4	21.4	21.7	22.8	23.0	23.1	23.1	23.7	23.9	23.9	
GE 8000	8.5	10.7	15.4	18.9	20.1	21.7	22.7	23.1	24.2	24.3	24.5	24.5	25.0	25.3	25.3	
GE 7000	10.0	12.3	17.8	21.4	22.5	24.2	25.3	25.7	26.9	27.0	27.1	27.1	27.7	27.9	27.9	
GE 6000	10.0	12.3	17.8	21.4	22.5	24.2	25.3	25.7	26.9	27.0	27.1	27.1	27.7	27.9	27.9	
GE 5000	11.3	14.2	20.1	24.2	25.7	27.8	28.8	29.5	30.7	30.8	30.9	30.9	31.5	31.7	31.7	
GE 4500	11.9	15.0	21.0	25.3	26.8	28.8	30.2	30.9	32.0	32.1	32.3	32.3	32.8	33.1	33.1	
GE 4000	13.7	16.9	24.2	28.7	30.2	32.6	34.4	35.1	36.3	36.4	36.5	36.5	37.1	37.3	37.3	
GE 3500	15.0	18.3	25.7	30.4	32.0	34.6	36.4	37.1	38.2	38.3	38.5	38.5	39.0	39.3	39.3	
GE 3000	16.9	20.9	29.0	34.2	36.1	39.0	41.2	41.9	43.2	43.6	43.7	43.9	44.4	44.7	44.7	
GE 2500	18.5	22.6	31.3	36.7	38.7	42.1	45.4	46.0	47.3	47.8	47.9	48.0	48.6	48.8	48.8	
GE 2200	20.7	25.3	35.8	42.5	44.4	48.0	51.5	52.2	53.6	54.2	54.3	54.4	55.0	55.2	55.2	
GE 1900	21.5	26.1	36.7	43.5	45.5	49.4	53.0	53.7	55.1	55.7	55.8	56.0	56.6	56.8	56.8	
GE 1500	23.4	28.1	39.8	47.6	49.8	54.8	58.8	59.6	61.3	62.0	62.2	62.6	63.1	63.4	63.4	
GE 1200	24.3	29.9	43.9	52.8	55.3	61.3	65.9	66.8	69.1	69.8	70.3	70.6	71.2	71.4	71.4	
GE 1000	24.9	31.3	46.5	56.3	59.0	66.1	71.0	72.0	74.7	75.7	76.2	76.6	77.2	77.4	77.4	
GE 900	25.1	31.8	47.8	57.5	60.3	67.4	72.4	73.5	77.2	78.1	78.9	79.2	79.8	80.0	80.0	
GE 800	25.1	31.9	48.8	58.8	61.5	69.1	74.3	75.4	79.1	80.1	81.1	81.4	82.0	82.2	82.2	
GE 700	25.1	31.9	49.1	59.2	62.0	69.7	75.5	76.9	80.6	81.7	82.9	83.4	84.2	84.4	84.4	
GE 600	25.1	31.9	49.1	59.5	62.5	70.6	77.2	78.5	82.7	83.8	85.1	85.9	86.9	87.3	87.3	
GE 500	25.1	31.9	49.4	60.2	63.3	71.9	78.5	80.4	85.0	86.6	88.1	89.1	90.1	90.5	90.5	
GE 400	25.1	31.9	49.4	60.2	63.3	72.3	79.6	82.0	87.6	89.6	91.4	92.5	93.6	93.9	93.9	
GE 300	25.3	32.0	49.5	60.3	63.4	72.8	80.4	82.8	88.5	90.5	93.0	94.3	95.3	96.0	96.0	
GE 200	25.3	32.0	49.5	60.3	63.4	72.8	80.4	82.8	88.6	90.6	93.5	94.7	96.4	98.0	98.5	
GE 100	25.3	32.0	49.5	60.3	63.4	72.8	80.4	82.8	88.7	90.7	94.0	95.3	97.0	98.7	100.0	
GE 0	25.3	32.0	49.5	60.3	63.4	72.8	80.4	82.8	88.7	90.7	94.0	95.3	97.0	98.7	100.0	

TOTAL NUMBER OF OBSERVATIONS: 871

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: JAN HOURS(LST): 0600-0800

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	5.3	6.2	10.3	12.7	13.3	14.5	14.9	14.9	16.1	16.1	16.3	16.6	16.8	16.8	16.8	
GE 20000	5.5	6.8	11.0	13.6	14.2	15.4	15.9	15.9	17.1	17.1	17.3	17.7	17.8	17.8	17.8	
GE 18000	5.5	6.8	11.0	13.7	14.3	15.6	16.1	16.1	17.3	17.3	17.6	17.9	18.0	18.0	18.0	
GE 16000	5.5	6.8	11.0	13.7	14.3	15.6	16.1	16.1	17.3	17.3	17.6	17.9	18.0	18.0	18.0	
GE 14000	5.5	6.8	11.0	13.7	14.3	15.6	16.1	16.1	17.3	17.3	17.6	17.9	18.0	18.0	18.0	
GE 12000	5.8	7.0	11.2	13.9	14.5	15.9	16.3	16.3	17.6	17.6	17.8	18.1	18.2	18.2	18.2	
GE 10000	6.7	7.9	12.2	15.3	15.9	17.4	18.1	18.1	19.5	19.5	19.7	20.2	20.3	20.3	20.3	
GE 9000	6.9	8.2	12.6	15.6	16.2	17.8	18.5	18.5	19.8	19.8	20.0	20.5	20.6	20.6	20.6	
GE 8000	7.2	8.6	13.1	16.4	17.1	19.1	19.8	19.9	21.3	21.3	21.5	22.0	22.1	22.1	22.1	
GE 7000	8.3	9.6	14.6	18.1	16.9	21.5	22.2	22.3	23.8	23.8	24.0	24.5	24.6	24.7	24.7	
GE 6000	8.4	9.7	14.7	18.5	19.3	21.9	22.5	22.7	24.1	24.1	24.3	24.8	24.9	25.0	25.0	
GE 5000	9.3	10.8	15.7	19.6	20.5	23.1	23.8	23.9	25.4	25.4	25.6	26.0	26.2	26.3	26.3	
GE 4500	9.7	11.7	17.0	20.8	21.7	24.5	25.4	25.5	27.0	27.0	27.2	27.6	27.7	27.9	27.9	
GE 4000	11.0	13.6	19.4	23.4	24.5	27.2	28.2	28.3	29.8	29.8	30.0	30.5	30.6	30.7	30.7	
GE 3500	13.0	16.0	22.3	26.5	27.7	30.5	31.5	31.7	33.3	33.3	33.5	34.0	34.1	34.2	34.2	
GE 3000	15.7	18.9	26.6	31.6	33.3	36.1	37.1	37.5	39.2	39.2	39.4	39.9	40.0	40.1	40.1	
GE 2500	17.2	20.5	28.9	33.9	36.0	39.3	40.4	41.1	43.0	43.0	43.3	43.7	43.9	44.1	44.1	
GE 2000	20.4	24.5	34.6	41.2	43.6	48.0	49.4	50.2	52.7	52.7	53.0	53.5	53.7	53.8	53.8	
GE 1800	20.5	24.6	35.0	41.4	44.1	48.6	49.9	50.7	53.3	53.3	53.8	54.2	54.5	54.6	54.6	
GE 1500	22.9	27.5	39.4	46.7	49.6	55.0	57.5	58.4	61.3	61.3	61.7	62.3	62.5	62.6	62.6	
GE 1200	23.7	28.9	43.3	52.0	56.4	62.3	64.9	65.8	69.3	69.4	69.9	70.7	70.9	71.0	71.0	
GE 1000	24.6	30.5	45.2	54.2	57.9	65.5	68.4	69.5	73.5	73.8	74.4	75.3	75.5	75.7	75.7	
GE 900	24.6	30.9	46.5	56.1	59.7	67.5	70.8	71.9	76.4	76.8	77.3	78.4	78.7	78.8	78.8	
GE 800	24.7	31.4	47.9	57.6	61.5	70.0	73.5	74.6	79.5	79.8	80.5	81.8	82.1	82.2	82.2	
GE 700	24.9	31.6	48.5	58.2	62.1	70.6	74.5	75.7	81.0	81.4	82.1	83.5	84.0	84.1	84.1	
GE 600	24.9	31.6	48.7	58.8	63.0	71.9	76.0	77.2	83.4	83.8	84.6	86.2	86.9	87.0	87.0	
GE 500	24.9	31.6	49.0	59.3	63.5	73.3	78.0	79.3	86.0	86.7	87.5	89.4	90.1	90.3	90.3	
GE 400	24.9	31.6	49.3	59.7	64.0	74.1	79.3	80.6	87.5	88.4	89.6	91.8	93.0	93.1	93.1	
GE 300	24.9	31.6	49.4	59.8	64.2	74.3	80.0	81.3	89.0	90.0	91.5	93.9	95.4	95.9	95.9	
GE 200	24.9	31.6	49.4	59.8	64.3	74.6	80.4	81.8	89.6	90.7	92.4	95.4	97.5	98.3	98.5	
GE 100	24.9	31.6	49.4	59.8	64.3	74.6	80.4	81.8	89.8	90.9	92.9	95.8	98.0	99.3	99.7	
GE 0	24.9	31.6	49.4	59.8	64.3	74.6	80.4	81.8	89.8	90.9	92.9	95.8	98.0	99.3	100.0	

TOTAL NUMBER OF OBSERVATIONS: [illegible]3

GLOBAL CLIMATOLOGY BRANCH — PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
USAFETAC — FROM HOURLY OBSERVATIONS
AIR WEATHER SERVICE/MAC

STATION NUMBER: 10617C STATION NAME: GRAFENWOHR AAF GER — PERIOD OF RECORD: 78-87
MONTH: JAN HOURS(LST): 0900-1100

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		5.6	7.3	11.4	13.4	14.2	15.7	16.8	16.8	18.1	18.1	18.6	18.6	18.7	18.7	18.7
GE 20000		6.6	8.4	13.5	15.6	16.5	18.2	19.2	19.2	20.8	20.8	21.3	21.3	21.5	21.5	21.5
GE 18000		6.6	8.4	13.5	15.6	16.5	18.4	19.5	19.5	21.0	21.0	21.5	21.5	21.7	21.7	21.7
GE 16000		6.6	8.4	13.5	15.6	16.5	18.4	19.5	19.5	21.0	21.0	21.5	21.5	21.7	21.7	21.7
GE 14000		6.9	8.7	13.7	15.9	16.8	18.7	19.7	19.7	21.3	21.3	21.7	21.7	21.9	21.9	21.9
GE 12000		7.1	8.9	13.9	16.1	17.0	19.0	20.0	20.0	21.6	21.6	22.0	22.0	22.3	22.3	22.3
GE 10000		7.2	9.1	14.3	16.6	17.5	19.7	20.7	20.7	22.3	22.3	22.7	22.7	22.9	22.9	22.9
GE 9000		7.2	9.1	14.4	16.9	17.8	19.9	20.9	20.9	22.5	22.5	22.9	22.9	23.2	23.2	23.2
GE 8000		8.2	10.2	16.0	18.8	19.7	22.2	23.2	23.2	24.7	24.7	25.2	25.2	25.4	25.4	25.4
GE 7000		9.7	12.0	18.2	21.0	22.6	24.8	25.6	25.6	27.3	27.3	27.8	27.8	28.0	28.0	28.0
GE 6000		9.8	12.1	18.4	21.4	22.5	25.1	26.1	26.1	27.8	27.8	28.2	28.2	28.5	28.5	28.5
GE 5000		10.5	12.9	19.7	22.9	24.1	26.7	27.7	27.7	29.4	29.4	29.8	29.8	30.0	30.0	30.0
GE 4500		11.1	13.8	21.1	24.4	25.5	28.1	29.1	29.2	30.9	31.0	31.5	31.5	31.7	31.7	31.7
GE 4000		12.6	15.3	23.2	26.4	27.7	30.3	31.4	31.5	33.2	33.3	33.7	33.7	34.1	34.2	34.2
GE 3500		14.4	17.3	25.1	28.5	29.7	32.3	33.5	33.6	35.4	35.5	36.0	36.0	36.3	36.4	36.4
GE 3000		16.3	21.4	30.0	33.9	35.7	38.7	40.0	40.3	42.2	42.3	42.7	42.7	43.1	43.2	43.2
GE 2500		21.0	24.7	34.3	38.2	40.4	43.6	45.4	45.9	47.8	47.9	48.4	48.4	48.7	48.8	48.8
GE 2000		24.6	28.6	39.3	44.0	46.3	50.1	52.2	52.9	55.0	55.1	55.8	55.8	56.1	56.2	56.2
GE 1800		25.2	29.1	40.6	44.8	47.1	50.8	53.1	53.9	56.1	56.2	56.9	56.9	57.3	57.4	57.4
GE 1500		26.3	30.4	42.5	49.3	52.0	56.7	59.6	60.6	63.7	63.9	64.8	64.9	65.2	65.4	65.4
GE 1200		28.1	32.3	45.3	53.9	56.7	62.3	66.3	67.3	71.0	71.3	72.2	72.3	72.7	72.8	72.8
GE 1000		28.6	33.0	46.6	55.7	58.6	64.8	69.0	70.1	74.6	75.4	76.4	76.6	77.1	77.2	77.2
GE 900		28.6	33.4	47.4	56.9	60.0	66.6	70.9	72.2	77.3	79.1	79.3	79.5	80.0	80.1	80.1
GE 800		29.0	33.6	48.0	58.2	61.2	68.6	73.0	74.4	80.0	80.8	82.2	82.7	83.1	83.2	83.2
GE 700		29.1	33.9	48.8	59.2	62.5	70.5	75.3	76.6	83.5	84.3	85.8	86.5	87.1	87.2	87.2
GE 600		29.4	34.1	49.2	59.6	63.7	72.1	76.8	78.3	85.2	85.9	87.7	89.1	89.9	90.0	90.0
GE 500		29.5	34.3	49.4	60.2	64.5	73.3	78.3	79.8	86.8	87.6	90.0	92.1	93.4	93.5	93.5
GE 400		29.7	34.5	49.6	61.0	65.6	74.6	80.3	81.8	89.3	90.1	92.6	94.8	96.2	96.4	96.4
GE 300		29.7	34.5	49.6	61.0	65.6	74.6	80.3	81.8	89.5	90.4	93.5	95.8	97.6	97.9	97.9
GE 200		29.7	34.5	49.6	61.0	65.6	74.9	80.8	82.2	90.0	91.0	94.0	96.5	98.6	99.2	99.2
GE 100		29.7	34.5	49.6	61.0	65.6	74.9	80.8	82.2	90.0	91.0	94.0	96.5	98.9	99.3	99.7
GE 0		29.9	34.8	49.8	61.3	65.9	75.3	81.1	82.6	90.3	91.3	94.4	96.9	99.2	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS: 889

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: JAN HOURS(LST): 1200-1400

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	10.7	13.9	15.6	18.9	21.2	22.2	23.5	23.5	23.6	23.6	23.6	23.6	23.6	23.6	23.6	
GE 20000	12.3	12.6	18.6	22.1	23.6	25.6	26.8	26.8	26.9	26.9	26.9	26.9	26.9	26.9	26.9	
GE 18000	13.2	13.5	19.5	23.0	24.5	26.6	27.8	27.8	27.9	27.9	27.9	27.9	27.9	27.9	27.9	
GE 16000	13.2	13.5	19.5	23.0	24.5	26.6	27.8	27.8	27.9	27.9	27.9	27.9	27.9	27.9	27.9	
GE 14000	13.6	13.8	19.9	23.3	24.8	26.9	28.2	28.2	28.3	28.3	28.3	28.3	28.3	28.3	28.3	
GE 12000	14.0	14.3	20.3	23.8	25.3	27.4	28.6	28.6	28.7	28.7	28.7	28.7	28.7	28.7	28.7	
GE 10000	14.5	14.7	21.0	24.5	25.9	28.1	29.3	29.3	29.4	29.5	29.5	29.5	29.5	29.5	29.5	
GE 9000	14.6	14.8	21.4	24.9	26.4	28.5	29.7	29.7	29.9	30.0	30.0	30.0	30.0	30.0	30.0	
GE 8000	15.3	15.5	22.2	25.9	27.5	29.9	31.1	31.1	31.2	31.3	31.3	31.3	31.3	31.3	31.3	
GE 7000	16.2	16.4	23.9	27.9	29.5	32.0	33.2	33.2	33.3	33.4	33.4	33.4	33.4	33.4	33.4	
GE 6000	16.3	16.5	24.1	28.2	29.7	32.2	33.4	33.4	33.6	33.7	33.7	33.7	33.7	33.7	33.7	
GE 5000	16.6	17.1	24.9	29.3	30.9	33.3	34.6	34.6	34.7	34.8	34.8	34.8	34.8	34.8	34.8	
GE 4500	17.4	17.6	25.6	30.0	31.5	34.1	35.8	35.8	35.9	36.0	36.0	36.0	36.0	36.0	36.0	
GE 4000	19.6	19.9	28.3	32.8	34.5	37.0	38.8	38.8	38.9	39.2	39.2	39.2	39.2	39.2	39.2	
GE 3500	21.6	22.1	30.8	35.5	37.1	39.7	41.5	41.5	41.6	41.9	41.9	41.9	41.9	41.9	41.9	
GE 3000	27.2	26.2	37.3	42.3	44.6	47.4	49.4	49.4	49.5	49.7	49.7	49.7	49.7	49.7	49.7	
GE 2500	29.5	30.6	40.3	45.6	47.9	50.8	53.0	53.2	53.3	53.5	53.5	53.5	53.5	53.5	53.5	
GE 2000	33.0	35.0	46.1	51.6	54.3	57.7	60.0	60.4	60.5	60.7	61.1	61.1	61.1	61.1	61.1	
GE 1800	33.3	35.4	46.7	52.6	55.7	59.1	61.5	61.8	62.0	62.2	62.5	62.5	62.5	62.5	62.5	
GE 1500	36.3	38.6	52.0	59.4	62.6	66.8	69.7	70.1	70.6	70.8	71.2	71.3	71.3	71.3	71.3	
GE 1200	37.1	40.2	55.2	64.4	67.6	72.7	75.6	76.2	77.9	78.1	78.6	78.7	78.7	78.7	78.7	
GE 1000	37.5	40.6	56.6	66.3	69.9	75.4	79.0	79.8	82.5	83.1	83.6	84.1	84.1	84.1	84.1	
GE 900	37.7	41.1	57.1	67.2	70.9	76.5	80.1	80.9	83.7	84.4	85.0	85.4	85.4	85.4	85.4	
GE 800	38.0	41.5	57.7	68.2	71.9	78.1	81.9	82.9	86.0	86.6	87.2	87.7	87.7	87.7	87.7	
GE 700	38.2	41.6	58.1	69.0	73.0	79.8	84.1	85.2	89.0	89.7	90.6	91.0	91.0	91.0	91.0	
GE 600	38.2	41.6	58.4	69.6	73.6	80.6	85.1	86.3	90.6	91.4	92.8	93.5	93.5	93.5	93.5	
GE 500	38.2	41.6	58.4	70.0	74.1	81.4	86.0	87.4	92.4	93.4	95.2	96.1	96.4	96.4	96.4	
GE 400	38.2	41.6	58.6	70.9	75.0	82.3	87.2	88.7	93.8	94.8	97.1	98.0	98.3	98.3	98.3	
GE 300	38.2	41.6	58.6	70.9	75.0	82.3	87.2	88.7	94.1	95.1	97.4	98.4	98.9	98.9	99.0	
GE 200	38.2	41.6	58.6	70.9	75.0	82.6	87.5	89.0	94.5	95.5	97.9	98.9	99.3	99.3	99.4	
GE 100	38.2	41.6	58.6	70.9	75.0	82.6	87.5	89.0	94.5	95.5	97.9	98.9	99.4	99.6	99.9	
GE 0	38.3	41.8	58.7	71.0	75.1	82.7	87.7	89.1	94.6	95.6	98.0	99.0	99.6	99.7	100.0	

TOTAL NUMBER OF OBSERVATIONS: 891

GLOBAL CLIMATOLOGY BRANCH — PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
USAFETAC — FROM HOURLY OBSERVATIONS
AIR WEATHER SERVICE/MAC

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER — PERIOD OF RECORD: 78-87
MONTH: JAN HOURS(LST): 1500-1700

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	ST 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	10.3	10.5	16.6	18.9	20.3	22.4	23.6	23.7	24.0	24.0	24.0	24.0	24.0	24.1	24.1	
GE 20000	12.1	12.6	20.0	22.9	24.4	26.5	27.7	27.8	28.3	28.3	28.3	28.3	28.3	28.4	28.4	
GE 18000	12.6	13.0	20.4	23.3	24.8	26.9	28.2	28.3	28.7	28.7	28.7	28.7	28.7	28.8	28.8	
GE 16000	12.6	13.0	20.4	23.3	24.8	26.9	28.2	28.3	28.7	28.7	28.7	28.7	28.7	28.8	28.8	
GE 14000	13.6	13.5	20.9	23.8	25.3	27.4	28.7	28.8	29.3	29.3	29.3	29.3	29.3	29.4	29.4	
GE 12000	13.6	14.3	21.7	24.6	26.0	28.2	29.5	29.6	30.1	30.1	30.1	30.1	30.1	30.2	30.2	
GE 10000	13.9	14.7	22.3	25.4	26.9	29.1	30.5	30.6	31.1	31.1	31.1	31.1	31.1	31.2	31.2	
GE 9000	14.1	14.9	22.7	25.7	27.3	29.4	30.9	31.0	31.4	31.4	31.4	31.4	31.4	31.5	31.5	
GE 8000	14.7	15.7	23.9	27.4	29.0	31.1	32.5	32.7	33.1	33.1	33.1	33.1	33.2	33.3	33.3	
GE 7000	16.3	17.5	26.4	30.2	32.0	34.1	35.6	35.7	36.1	36.1	36.1	36.1	36.3	36.4	36.4	
GE 6000	16.8	18.1	27.0	30.9	32.7	34.8	36.3	36.4	36.8	36.8	36.8	36.8	36.9	37.0	37.0	
GE 5000	17.8	19.1	28.3	32.1	34.2	36.4	37.8	37.9	38.4	38.4	38.4	38.4	38.5	38.6	38.6	
GE 4500	18.4	19.6	29.0	32.8	35.0	37.3	38.8	38.9	39.4	39.4	39.4	39.4	39.5	39.6	39.6	
GE 4000	20.5	21.8	31.5	35.4	37.6	39.8	41.4	41.5	42.0	42.0	42.0	42.0	42.1	42.2	42.2	
GE 3500	22.8	24.1	34.3	38.7	41.0	43.4	45.3	45.5	45.9	45.9	45.9	45.9	46.0	46.1	46.1	
GE 3000	26.9	29.3	41.4	45.9	48.3	51.2	53.2	53.3	53.9	53.9	54.0	54.0	54.2	54.3	54.3	
GE 2500	28.7	31.4	44.1	48.9	51.3	54.2	56.3	56.5	57.0	57.1	57.2	57.2	57.5	57.6	57.6	
GE 2000	32.1	35.0	48.7	54.4	57.0	60.0	62.4	62.5	63.1	63.3	63.5	63.5	63.7	63.9	63.9	
GE 1800	32.6	35.8	49.6	55.8	58.5	61.6	64.1	64.2	64.8	65.0	65.2	65.2	65.4	65.5	65.5	
GE 1500	35.7	39.6	54.4	61.2	64.1	67.6	71.0	71.3	71.9	72.3	72.5	72.6	72.8	73.0	73.0	
GE 1200	37.5	41.5	57.5	65.2	68.6	73.2	77.6	78.0	79.1	79.8	80.5	80.6	80.9	81.0	81.0	
GE 1000	38.0	42.1	59.4	67.7	71.5	76.7	81.9	82.6	84.4	85.3	86.2	86.3	86.8	86.9	86.9	
GE 900	38.3	42.4	60.2	68.5	72.3	77.6	83.5	84.4	86.2	87.3	88.3	88.4	88.9	89.0	89.0	
GE 800	38.3	42.5	60.4	68.7	72.5	77.9	84.0	85.0	86.8	88.0	89.1	89.3	89.9	90.0	90.0	
GE 700	38.5	42.9	60.8	69.2	73.2	78.7	84.7	85.9	87.8	89.1	90.2	90.5	91.0	91.1	91.1	
GE 600	38.5	42.9	61.3	69.9	74.1	80.4	86.6	87.8	90.6	92.0	93.2	93.7	94.4	94.5	94.5	
GE 500	38.5	42.9	61.3	70.0	74.5	81.4	88.1	89.3	92.7	94.3	95.5	96.2	97.1	97.2	97.2	
GE 450	38.5	42.9	61.3	70.0	74.6	81.5	88.2	89.5	92.8	94.4	96.1	96.7	97.6	97.8	97.8	
GE 400	38.5	42.9	61.3	70.0	74.6	81.5	88.4	89.7	93.0	94.6	96.3	97.5	98.7	98.8	98.9	
GE 200	38.5	42.9	61.3	70.0	74.6	81.6	88.6	89.8	93.2	94.7	96.5	98.0	99.1	99.4	99.6	
GE 100	38.5	42.9	61.3	70.0	74.6	81.6	88.6	89.8	93.2	94.7	96.5	98.0	99.1	99.6	99.8	
GE 0	38.6	43.0	61.5	70.3	74.9	81.8	88.8	90.0	93.4	94.9	96.7	98.2	99.3	99.8	100.0	

TOTAL NUMBER OF OBSERVATIONS: 891

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: JAN HOURS(LST): 1800-2000

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	8.5	9.5	14.5	17.2	17.4	19.2	21.1	21.3	22.7	22.8	22.8	23.0	23.6	23.6	23.8	
GE 20000	9.3	10.5	16.7	20.0	20.2	22.0	24.0	24.2	25.6	25.9	26.0	26.3	26.8	26.8	27.0	
GE 18000	10.0	11.2	17.4	20.7	21.0	22.8	24.8	25.0	26.6	26.7	26.8	27.0	27.6	27.6	27.8	
GE 16000	10.0	11.2	17.4	20.7	21.0	22.8	24.8	25.0	26.6	26.7	26.8	27.0	27.6	27.6	27.8	
GE 14000	10.7	11.9	18.1	21.3	21.7	23.5	25.5	25.7	27.3	27.4	27.5	27.7	28.3	28.3	28.5	
GE 12000	11.3	12.7	18.9	22.1	22.4	24.2	26.4	26.6	28.2	28.3	28.4	28.6	29.2	29.2	29.4	
GE 10000	12.0	13.4	19.8	23.1	23.5	25.3	28.4	28.6	30.2	30.3	30.4	30.6	31.2	31.2	31.4	
GE 9000	12.1	13.5	19.9	23.2	23.6	25.4	28.5	28.7	30.3	30.4	30.5	30.8	31.3	31.3	31.5	
GE 8000	13.0	14.4	21.5	24.9	25.3	27.0	30.2	30.4	32.0	32.1	32.2	32.4	33.1	33.4	33.8	
GE 7000	14.8	16.2	23.8	27.5	27.9	29.7	33.1	33.3	34.9	35.0	35.1	35.4	36.0	36.4	36.7	
GE 6000	15.5	16.9	24.7	28.4	28.8	31.0	34.3	34.6	36.1	36.3	36.4	36.6	37.3	37.6	37.9	
GE 5000	16.3	17.8	25.6	29.4	30.2	32.4	35.9	36.1	37.7	37.8	37.9	38.2	38.8	39.2	39.5	
GE 4500	17.1	18.7	26.6	30.4	31.2	33.7	37.1	37.4	38.9	39.1	39.2	39.4	40.1	40.4	40.7	
GE 4000	19.8	21.5	30.0	33.8	34.6	37.0	40.5	40.7	42.3	42.4	42.5	42.8	43.4	43.8	44.1	
GE 3500	20.5	22.7	31.3	35.7	36.5	39.2	42.9	43.2	44.9	45.0	45.1	45.3	46.0	46.4	46.7	
GE 3000	22.4	25.0	34.5	39.1	40.0	43.4	47.6	48.0	49.7	49.8	49.9	50.5	51.2	51.5	51.9	
GE 2500	23.7	26.4	36.6	41.9	42.8	46.5	50.6	51.1	52.7	52.9	53.0	53.6	54.3	54.7	55.0	
GE 2000	27.8	31.3	44.0	50.6	51.6	56.6	61.4	61.8	63.5	63.6	63.7	64.5	65.2	65.5	65.9	
GE 1800	28.3	32.3	45.2	51.9	52.9	57.8	62.6	63.1	64.8	64.9	65.0	65.8	66.6	66.9	67.2	
GE 1500	29.6	33.8	48.1	55.1	56.2	62.1	67.5	68.0	70.0	70.1	70.3	71.0	71.8	72.2	72.5	
GE 1200	31.5	36.1	51.2	58.6	59.8	66.9	72.7	73.4	75.6	76.1	76.2	77.0	77.8	78.2	78.6	
GE 1000	31.9	36.5	52.4	60.6	62.6	70.1	77.0	77.7	80.7	81.1	81.3	82.0	82.9	83.4	83.7	
GE 900	32.5	37.3	53.4	61.6	63.6	71.4	78.9	79.7	82.7	83.2	83.4	84.3	85.2	85.6	86.0	
GE 800	32.5	37.4	53.6	62.1	64.1	72.1	79.7	80.6	83.8	84.5	85.2	86.1	87.0	87.4	87.8	
GE 700	32.5	37.4	54.0	62.9	65.1	73.1	81.3	82.3	85.7	86.6	87.3	88.3	89.2	89.9	90.2	
GE 600	32.5	37.5	54.1	63.0	65.3	73.5	82.0	83.1	87.7	88.6	89.2	90.3	91.2	91.9	92.3	
GE 500	32.5	37.5	54.3	63.2	65.5	74.5	84.3	85.3	90.5	91.6	92.3	93.6	94.8	95.5	95.8	
GE 400	32.5	37.5	54.3	63.2	65.5	74.5	84.4	85.4	91.0	92.1	92.9	94.3	95.7	96.4	96.9	
GE 300	32.5	37.5	54.3	63.2	65.5	74.5	84.7	85.7	91.6	92.9	93.9	95.5	97.0	97.6	98.1	
GE 200	32.5	37.5	54.3	63.2	65.5	74.5	84.7	85.7	91.8	92.9	93.9	95.5	98.1	99.0	99.4	
GE 100	32.5	37.5	54.3	63.2	65.5	74.5	84.7	85.7	91.8	92.9	93.9	95.5	98.1	99.1	99.7	
GE 0	32.5	37.5	54.3	63.2	65.5	74.5	84.7	85.7	91.8	92.9	93.9	95.5	98.1	99.1	100.0	

TOTAL NUMBER OF OBSERVATIONS: 891

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: JAN HOURS(LST): 2100-2300

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	6.3	6.1	12.5	14.5	15.3	16.5	18.6	18.8	20.8	21.0	21.0	21.4	21.9	22.0	22.3	
GE 20000	7.3	9.2	14.2	16.6	17.4	18.8	20.9	21.0	23.1	23.3	23.3	23.6	24.2	24.3	24.5	
GE 18000	7.6	9.8	15.4	17.7	18.5	19.9	22.0	22.1	24.2	24.4	24.4	24.7	25.3	25.4	25.6	
GE 16000	7.9	9.9	15.5	17.9	18.6	20.0	22.1	22.3	24.3	24.5	24.5	24.9	25.4	25.5	25.8	
GE 14000	8.0	10.1	15.6	18.0	18.8	20.1	22.3	22.4	24.4	24.6	24.6	25.0	25.5	25.6	25.9	
GE 12000	8.2	10.4	15.9	18.3	19.1	20.5	22.6	22.7	24.7	25.0	25.0	25.3	25.9	26.0	26.2	
GE 10000	8.7	10.8	16.4	19.2	20.0	21.6	24.3	24.4	26.7	26.9	26.9	27.2	27.8	27.9	28.1	
GE 9000	9.2	11.3	16.6	19.7	20.5	22.0	24.7	24.9	27.1	27.3	27.3	27.7	28.2	28.4	28.6	
GE 8000	10.3	12.7	18.9	21.8	22.6	24.2	26.9	27.0	29.3	29.5	29.5	29.9	30.5	30.7	31.0	
GE 7000	11.6	14.2	21.0	24.1	25.1	27.0	29.7	29.8	32.1	32.3	32.3	32.8	33.3	33.6	33.8	
GE 6000	12.1	14.8	21.7	24.9	25.9	28.1	30.8	31.0	33.2	33.4	33.4	33.9	34.5	34.7	34.9	
GE 5000	12.8	15.6	22.9	26.4	27.5	29.8	33.0	33.1	35.4	35.6	35.7	36.2	36.7	36.9	37.2	
GE 4500	13.3	16.2	23.6	27.2	28.2	30.6	33.9	34.0	36.3	36.5	36.6	37.1	37.6	37.9	38.1	
GE 4000	17.2	20.0	27.9	31.8	32.8	35.1	38.5	38.6	41.0	41.2	41.4	41.8	42.4	42.6	42.8	
GE 3500	18.1	20.9	29.7	33.8	34.6	37.2	40.8	40.9	43.5	43.7	44.0	44.4	45.0	45.2	45.4	
GE 3000	20.0	23.5	33.2	37.6	38.6	41.5	45.3	45.4	48.0	48.2	48.5	48.9	49.5	49.8	50.1	
GE 2500	22.3	25.8	36.7	41.7	42.7	45.9	49.7	49.8	52.7	52.9	53.1	53.6	54.1	54.5	54.7	
GE 2000	25.4	29.4	42.4	48.6	49.9	53.6	57.9	58.1	60.9	61.1	61.5	61.9	62.5	62.8	63.1	
GE 1800	25.9	29.8	43.6	49.9	51.3	55.4	59.7	59.9	62.8	63.1	63.4	63.8	64.4	64.7	65.0	
GE 1500	27.5	31.5	46.8	53.7	55.1	60.1	64.9	65.2	68.5	68.9	69.4	69.8	70.4	70.7	71.0	
GE 1200	28.5	32.9	49.3	56.9	58.4	64.4	69.7	70.1	74.4	74.8	75.3	75.7	76.3	76.6	76.8	
GE 1000	29.0	33.7	50.8	59.0	60.8	67.6	73.9	74.4	79.4	79.9	80.3	80.8	81.4	81.7	81.9	
GE 900	29.5	34.6	52.1	60.2	62.0	69.2	75.9	76.5	81.6	82.1	82.6	83.1	83.6	84.0	84.2	
GE 800	29.8	34.9	53.2	61.7	63.5	71.0	77.7	78.4	83.7	84.3	85.0	85.4	86.1	86.4	86.7	
GE 700	29.9	35.0	53.3	61.8	63.7	71.4	78.9	79.7	85.1	85.6	86.4	86.9	87.6	87.9	88.1	
GE 600	29.9	35.0	53.3	61.8	63.7	72.0	79.4	80.2	86.4	87.3	88.4	88.8	89.5	89.8	90.1	
GE 500	29.9	35.0	53.6	62.0	64.1	72.8	80.7	81.7	88.5	89.4	90.4	90.8	91.5	91.9	92.1	
GE 400	29.9	35.0	53.6	62.0	64.0	73.6	82.0	83.1	90.8	91.8	93.1	93.6	94.2	94.7	94.9	
GE 300	29.9	35.0	53.6	62.1	64.1	73.7	82.6	83.6	91.5	92.7	94.4	94.8	95.8	96.4	96.6	
GE 200	29.9	35.0	53.6	62.1	64.1	73.7	82.6	83.7	91.9	93.0	94.6	95.5	97.2	98.0	98.5	
GE 100	29.9	35.1	53.7	62.3	64.2	73.9	82.8	84.0	92.2	93.3	95.1	95.8	97.5	98.4	99.8	
GE 0	29.9	35.1	53.7	62.3	64.2	73.9	82.8	84.0	92.2	93.3	95.1	95.9	97.7	98.6	100.0	

TOTAL NUMBER OF OPSERVATIONS: 865

GLOBAL CLIMATOLOGY BRANCH — PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
USAFETAC — FROM HOURLY OBSERVATIONS
AIR WEATHER SERVICE/MAC

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER — PERIOD OF RECORD: 78-87
MONTH: JAN HOURS(LST): ALL

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 16C	GE 9C	GE 8C	GE 6C	GE 48	GE 4C	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	7.5	8.6	13.6	15.7	16.6	18.2	19.4	19.5	20.6	20.7	20.8	20.9	21.2	21.3	21.3	
GE 20000	8.5	9.9	15.0	18.0	18.9	20.5	21.8	21.9	23.0	23.1	23.3	23.4	23.7	23.8	23.8	
GE 18000	8.9	10.3	15.6	18.5	19.5	21.1	22.4	22.5	23.7	23.8	23.9	24.0	24.3	24.4	24.5	
GE 16000	8.9	10.3	15.6	18.5	19.5	21.1	22.4	22.5	23.7	23.8	23.9	24.0	24.4	24.4	24.5	
GE 14000	9.1	10.5	15.8	18.8	19.7	21.4	22.7	22.8	23.9	24.0	24.2	24.3	24.6	24.7	24.7	
GE 12000	9.5	10.9	16.2	19.2	20.1	21.8	23.1	23.2	24.4	24.4	24.6	24.7	25.0	25.1	25.1	
GE 10000	10.0	11.4	17.0	20.1	21.0	22.8	24.4	24.5	25.8	25.9	26.0	26.1	26.5	26.5	26.6	
GE 9000	10.2	11.6	17.3	20.4	21.3	23.1	24.7	24.8	26.1	26.2	26.3	26.4	26.8	26.8	26.9	
GE 8000	11.0	12.5	18.5	21.9	22.9	24.8	26.4	26.5	27.8	27.9	28.0	28.2	28.5	28.7	28.7	
GE 7000	12.3	13.9	20.6	24.1	25.2	27.4	29.0	29.1	30.4	30.5	30.6	30.8	31.1	31.3	31.3	
GE 6000	12.6	14.3	21.0	24.6	25.7	27.9	29.5	29.7	31.0	31.1	31.2	31.3	31.7	31.8	31.9	
GE 5000	13.5	15.3	22.2	26.1	27.3	29.6	31.3	31.5	32.8	32.9	33.1	33.2	33.6	33.7	33.8	
GE 4500	14.2	16.1	23.3	27.2	28.5	30.9	32.7	32.9	34.2	34.3	34.5	34.6	35.0	35.1	35.2	
GE 4000	16.3	18.4	26.1	30.2	31.5	34.0	35.9	36.2	37.5	37.6	37.7	37.9	38.3	38.4	38.5	
GE 3500	17.9	20.1	28.1	32.5	33.6	36.4	38.5	38.8	40.2	40.3	40.5	40.6	41.0	41.2	41.2	
GE 3000	21.0	23.7	32.8	37.5	39.1	42.1	44.4	44.8	46.2	46.4	46.6	46.8	47.2	47.4	47.5	
GE 2500	22.9	25.9	35.6	40.6	42.4	45.7	48.3	48.7	50.2	50.4	50.6	50.9	51.3	51.5	51.5	
GE 2000	26.1	29.6	41.1	47.2	49.1	53.0	56.0	56.5	58.2	58.5	58.8	59.0	59.5	59.6	59.7	
GE 1800	26.6	30.2	42.0	48.2	50.3	54.3	57.4	57.9	59.7	59.9	60.2	60.5	61.0	61.1	61.2	
GE 1500	28.5	32.5	45.7	52.9	55.2	60.1	63.9	64.6	66.7	67.0	67.3	67.7	68.1	68.3	68.4	
GE 1200	29.8	34.2	48.9	57.2	59.7	65.7	70.0	70.8	73.6	74.0	74.5	74.9	75.3	75.5	75.6	
GE 1000	30.4	35.1	50.7	59.5	62.4	69.0	74.0	74.9	78.4	79.0	79.6	80.1	80.6	80.8	80.9	
GE 900	30.6	35.7	51.7	60.7	63.6	70.5	75.8	76.8	80.6	81.3	81.9	82.4	83.0	83.2	83.2	
GE 800	30.8	35.9	52.5	61.8	64.7	72.0	77.5	78.5	82.5	83.3	84.2	84.7	85.3	85.5	85.5	
GE 700	30.9	36.1	52.9	62.4	65.4	73.0	78.9	80.1	84.5	85.3	86.3	86.9	87.6	87.8	87.9	
GE 600	30.9	36.1	53.1	62.7	66.0	74.0	80.2	81.4	86.4	87.3	88.5	89.4	90.1	90.3	90.4	
GE 500	30.9	36.2	53.3	63.1	66.5	75.0	81.6	83.0	88.5	89.6	91.0	92.1	93.1	93.3	93.4	
GE 400	30.9	36.2	53.4	63.4	66.8	75.6	82.7	84.2	90.2	91.4	93.1	94.3	95.4	95.6	95.7	
GE 300	31.0	36.2	53.4	63.5	66.9	75.8	83.1	84.6	90.9	92.2	94.1	95.6	96.8	97.2	97.3	
GE 200	31.0	36.2	53.4	63.5	66.9	76.0	83.3	84.8	91.2	92.5	94.6	96.2	97.9	98.6	98.9	
GE 100	31.0	36.2	53.4	63.5	67.0	76.0	83.3	84.9	91.4	92.7	94.9	96.4	98.2	99.1	99.8	
GE 0	31.0	36.3	53.5	63.6	67.0	76.1	83.4	84.9	91.4	92.8	94.9	96.5	98.3	99.2	100.0	

TOTAL NUMBER OF OBSERVATIONS: 7063

GLOBAL CLIMATOLOGY BRANCH — PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
USAFETAC — FROM HOURLY OBSERVATIONS
AIR WEATHER SERVICE/MAC

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER — PERIOD OF RECORD: 78-87
MONTH: FEB HOURS(LST): 0000-0200

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	14.9	17.8	26.4	28.3	26.8	32.4	34.0	34.5	36.6	36.6	37.8	37.8	38.3	38.4	38.7	
GE 20000	15.7	19.0	27.8	30.0	30.6	34.5	36.3	36.8	38.9	38.9	40.1	40.1	40.5	40.7	40.9	
GE 18000	15.8	19.1	27.9	30.7	31.7	35.6	37.4	37.8	40.0	40.0	41.1	41.1	41.6	41.7	42.0	
GE 16000	15.8	19.1	27.9	30.7	31.7	35.6	37.4	37.8	40.0	40.0	41.1	41.1	41.6	41.7	42.0	
GE 14000	16.0	19.4	28.1	31.0	31.9	35.8	37.6	38.1	40.2	40.2	41.4	41.4	41.8	42.0	42.2	
GE 12000	16.0	19.4	28.5	31.3	32.3	36.2	38.2	38.7	40.8	40.8	42.0	42.0	42.4	42.6	42.8	
GE 10000	16.5	20.1	29.6	32.6	33.6	37.5	39.5	40.0	42.1	42.1	43.3	43.3	43.7	43.9	44.1	
GE 9000	16.5	20.1	29.6	32.6	33.6	37.5	39.5	40.0	42.1	42.1	43.3	43.3	43.7	43.9	44.1	
GE 8000	17.1	20.8	30.6	33.7	34.6	38.7	40.7	41.1	43.3	43.3	44.4	44.4	44.9	45.0	45.3	
GE 7000	17.6	21.3	31.4	34.5	35.5	39.6	41.6	42.1	44.2	44.2	45.4	45.4	45.9	46.0	46.2	
GE 6000	17.6	21.3	31.4	34.6	35.6	39.7	41.7	42.2	44.3	44.3	45.5	45.5	46.0	46.1	46.3	
GE 5000	17.6	21.3	31.4	34.8	35.8	40.0	42.2	42.7	45.4	45.4	46.7	46.7	47.2	47.3	47.5	
GE 4500	18.4	22.1	33.2	36.5	37.6	41.7	44.3	44.9	48.1	48.1	49.4	49.4	49.9	50.0	50.2	
GE 4000	19.0	23.0	34.6	38.2	39.2	43.4	46.0	46.6	49.8	49.8	51.1	51.1	51.5	51.9	52.1	
GE 3500	19.7	24.1	36.4	40.1	41.1	45.3	48.2	48.8	52.0	52.0	53.3	53.3	53.8	54.1	54.4	
GE 3000	21.2	25.7	40.2	44.0	45.2	49.9	54.3	54.8	58.4	58.4	59.7	59.7	60.2	60.5	60.8	
GE 2500	21.9	26.8	42.6	46.7	47.9	53.7	58.2	58.7	62.5	62.5	63.8	63.8	64.3	64.7	64.9	
GE 2000	23.4	28.6	46.7	51.5	52.7	59.1	63.8	64.5	68.8	68.8	70.1	70.1	70.6	70.9	71.2	
GE 1800	24.2	29.4	47.6	52.5	53.7	60.3	65.0	65.7	70.3	70.3	71.7	71.7	72.2	72.6	72.8	
GE 1600	25.3	30.5	51.2	56.7	57.9	64.6	69.7	70.4	75.1	75.2	76.6	76.6	77.1	77.4	77.7	
GE 1200	25.9	31.2	53.0	59.6	61.1	68.4	74.1	74.8	79.6	79.7	81.1	81.1	81.6	81.9	82.2	
GE 1000	26.0	31.3	53.6	61.1	62.8	70.9	77.2	78.0	83.1	83.3	85.0	85.0	85.5	85.8	86.1	
GE 900	26.0	31.4	54.1	61.7	63.4	71.5	77.8	78.6	83.7	83.9	85.6	85.6	86.1	86.4	86.9	
GE 800	26.1	32.0	54.6	62.4	64.1	72.6	79.0	79.8	85.0	85.2	86.9	86.9	87.5	87.8	88.4	
GE 700	26.1	32.0	54.6	62.5	64.2	73.3	79.9	80.7	85.9	86.2	87.8	87.8	88.5	88.9	89.6	
GE 600	26.1	32.0	54.6	62.5	64.2	73.5	80.4	81.2	86.6	87.0	88.7	88.7	89.4	89.7	90.4	
GE 500	26.1	32.2	55.1	63.0	64.7	74.1	81.4	82.3	88.1	88.4	90.1	90.1	91.4	91.7	92.4	
GE 400	26.1	32.2	55.3	63.4	65.0	74.5	81.8	82.9	88.8	89.1	91.0	91.0	92.3	92.7	93.4	
GE 300	26.1	32.2	55.3	63.4	65.0	74.6	81.9	83.2	89.5	89.8	91.8	92.6	94.2	94.6	95.3	
GE 200	26.1	32.2	55.3	63.4	65.0	74.6	82.0	83.3	89.6	90.1	92.1	92.8	95.0	95.4	97.0	
GE 100	26.1	32.2	55.3	63.4	65.0	74.6	82.2	83.5	89.7	90.2	92.2	93.0	95.6	96.0	99.4	
GE 0	26.1	32.2	55.3	63.4	65.0	74.6	82.2	83.5	89.8	90.3	92.3	93.1	95.7	96.2	100.0	

TOTAL NUMBER OF OBSERVATIONS: 846

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 76-87
MONTH: FEB HOURS(LST): 0300-0500

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	13.8	16.4	22.0	25.1	25.6	29.2	31.0	31.2	34.4	34.5	35.1	35.3	35.5	35.6	35.8	
GE 20000	14.5	18.0	24.8	27.3	28.0	31.9	33.9	34.2	37.4	37.5	38.1	38.3	38.4	38.5	38.8	
GE 18000	14.7	18.1	24.9	27.8	29.0	32.9	34.9	35.1	38.3	38.4	39.0	39.2	39.4	39.5	39.7	
GE 16000	14.7	18.1	24.9	27.6	29.0	32.9	34.9	35.1	38.3	38.4	39.0	39.2	39.4	39.5	39.7	
GE 14000	14.7	18.1	24.9	27.8	29.0	32.9	34.9	35.1	38.3	38.4	39.0	39.2	39.4	39.5	39.7	
GE 12000	14.7	18.2	25.2	28.0	29.2	33.1	35.1	35.3	38.5	38.7	39.2	39.5	39.6	39.7	40.0	
GE 10000	15.6	19.3	26.6	29.6	30.7	34.8	36.8	37.0	40.2	40.3	40.9	41.1	41.3	41.4	41.6	
GE 9000	15.6	19.3	26.8	29.8	31.0	35.0	37.0	37.2	40.4	40.5	41.1	41.4	41.5	41.7	42.0	
GE 8000	15.7	19.4	27.1	30.0	31.2	35.5	37.6	37.8	41.0	41.1	41.7	42.0	42.1	42.3	42.6	
GE 7000	16.2	19.9	27.7	30.6	31.8	36.1	38.2	38.4	41.8	42.0	42.6	42.8	42.9	43.1	43.4	
GE 6000	16.2	19.9	27.7	30.6	31.8	36.2	38.3	38.5	42.0	42.1	42.7	42.9	43.0	43.3	43.5	
GE 5000	16.7	20.6	28.6	31.6	33.0	37.5	39.8	40.1	43.9	44.0	44.6	44.8	44.9	45.2	45.4	
GE 4500	16.9	20.8	30.1	33.2	34.6	39.1	41.6	42.1	46.0	46.1	46.7	46.9	47.0	47.3	47.5	
GE 4000	18.1	22.5	33.0	36.4	37.8	42.3	45.2	45.6	49.8	49.9	50.5	50.7	50.8	51.1	51.3	
GE 3500	18.3	22.8	33.8	37.4	38.8	43.5	46.5	46.9	51.1	51.2	51.8	52.0	52.1	52.4	52.6	
GE 3000	20.2	25.2	37.5	41.4	42.6	47.8	51.2	51.7	56.1	56.3	56.9	57.1	57.2	57.4	57.7	
GE 2500	20.4	25.4	38.8	43.5	44.9	50.6	54.1	54.6	59.5	59.6	60.2	60.4	60.5	60.8	61.0	
GE 2000	22.0	27.2	42.6	47.9	49.4	55.8	60.2	60.6	65.6	65.8	66.5	66.8	67.0	67.3	67.5	
GE 1800	22.9	28.4	44.1	49.5	51.1	57.4	61.8	62.4	67.6	67.8	68.6	68.8	69.0	69.3	69.5	
GE 1500	24.6	30.5	47.9	53.8	55.6	62.2	67.0	67.6	72.8	73.0	73.8	74.0	74.2	74.5	74.7	
GE 1200	24.8	31.0	50.6	57.3	59.7	67.1	72.8	73.4	79.0	79.2	79.9	80.1	80.4	80.6	80.9	
GE 1000	25.2	31.3	52.2	59.2	61.6	69.7	75.9	76.7	82.7	83.1	83.9	84.2	84.4	84.6	84.9	
GE 900	25.2	31.4	52.5	59.5	61.8	70.2	76.4	77.3	83.3	83.7	84.5	84.8	85.0	85.2	85.5	
GE 800	25.5	31.8	52.8	60.0	62.6	71.3	77.4	78.4	84.5	84.9	85.7	85.9	86.2	86.4	86.6	
GE 700	25.5	31.8	52.8	60.3	62.9	72.2	78.5	79.4	85.9	86.3	87.1	87.4	87.7	88.1	88.3	
GE 600	25.5	31.8	52.8	60.3	63.0	72.6	78.8	80.0	86.5	86.9	87.7	87.9	88.3	88.7	88.9	
GE 500	25.5	31.8	53.1	60.6	63.4	72.9	79.3	80.5	87.4	87.8	88.6	89.0	89.6	90.1	90.3	
GE 400	25.5	31.8	53.1	60.8	63.5	73.0	79.7	80.9	87.8	88.3	89.6	90.0	90.5	91.0	91.3	
GE 300	25.5	31.8	53.1	60.8	63.5	73.3	80.1	81.4	88.6	89.4	91.0	91.5	92.8	93.4	93.9	
GE 200	25.5	31.8	53.1	60.8	63.5	73.3	80.1	81.6	88.9	89.5	91.3	92.4	94.2	95.5	96.5	
GE 100	25.5	31.8	53.1	60.8	63.5	73.3	80.1	81.6	88.9	89.6	91.4	92.6	94.7	96.1	98.9	
GE 0	25.5	31.8	53.1	60.8	63.5	73.3	80.3	81.7	89.0	89.7	91.5	92.7	95.0	96.6	100.0	

TOTAL NUMBER OF OBSERVATIONS: 846

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: FEB HOURS(LST): 0600-0800

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	9.3	12.6	17.8	21.7	22.7	25.7	28.1	28.3	29.0	29.6	30.1	30.4	30.6	30.6	30.6	
GE 20000	10.0	13.8	19.0	23.3	24.5	27.7	30.5	30.7	32.0	32.6	33.2	33.5	33.7	33.7	33.7	
GE 18000	10.2	14.1	19.4	23.9	25.1	28.6	31.6	31.8	33.1	33.7	34.3	34.5	34.8	34.8	34.8	
GE 16000	10.3	14.2	19.5	24.0	25.2	28.7	31.7	31.9	33.2	33.8	34.4	34.6	34.9	34.9	34.9	
GE 14000	10.3	14.2	19.5	24.0	25.2	28.7	31.7	31.9	33.3	33.9	34.5	34.8	35.0	35.0	35.0	
GE 12000	10.5	14.4	19.9	24.3	25.7	29.2	32.2	32.4	33.8	34.4	35.0	35.2	35.5	35.5	35.5	
GE 10000	11.2	15.1	20.9	25.5	26.8	30.4	33.6	33.8	35.2	35.8	36.4	36.6	37.1	37.1	37.1	
GE 9000	11.2	15.1	21.0	25.7	27.1	30.6	33.9	34.3	35.9	36.5	37.1	37.4	37.8	37.8	37.8	
GE 8000	11.5	15.5	21.6	26.2	27.7	31.3	34.6	35.1	36.9	37.5	38.1	38.3	38.8	38.8	38.8	
GE 7000	11.9	16.1	22.2	27.0	28.6	32.3	35.6	36.2	38.4	39.0	39.6	39.8	40.3	40.4	40.4	
GE 6000	11.9	16.1	22.2	27.0	28.6	32.3	35.6	36.2	38.4	39.0	39.6	39.8	40.3	40.4	40.4	
GE 5000	12.2	16.4	22.7	27.8	29.4	33.1	36.4	37.0	39.5	40.1	40.7	40.9	41.4	41.5	41.5	
GE 4500	12.8	17.0	24.3	30.3	31.9	35.9	39.5	40.1	42.8	43.4	44.0	44.2	44.8	44.9	44.9	
GE 4000	13.9	18.4	26.6	33.0	34.6	39.1	42.9	43.5	46.2	46.8	47.4	47.6	48.2	48.3	48.3	
GE 3500	14.1	18.6	27.2	33.9	35.9	40.4	44.7	45.4	48.2	49.1	49.6	49.9	50.5	50.6	50.6	
GE 3000	16.5	21.2	30.3	37.4	39.5	44.1	48.7	49.5	52.6	53.4	54.0	54.3	55.2	55.3	55.3	
GE 2500	16.9	21.6	31.7	39.4	41.5	46.7	51.3	52.1	55.2	56.0	56.6	56.9	57.8	57.9	57.9	
GE 2000	18.1	23.3	34.6	42.8	45.3	51.1	56.0	56.9	60.4	61.2	61.8	62.1	63.0	63.1	63.1	
GE 1800	18.3	23.6	35.6	43.9	46.3	52.1	57.3	58.2	61.7	62.5	63.1	63.4	64.3	64.4	64.4	
GE 1500	20.1	25.5	39.5	48.8	51.9	59.0	64.5	65.4	69.0	69.9	70.4	70.7	71.7	71.9	71.9	
GE 1200	20.6	26.1	42.0	52.5	55.9	64.1	70.2	71.3	75.2	76.0	76.7	77.0	78.1	78.3	78.3	
GE 1000	20.7	26.5	42.7	53.3	57.0	65.7	72.7	74.0	78.5	79.7	80.5	80.9	82.0	82.2	82.2	
GE 900	20.8	26.6	42.8	53.4	57.1	65.8	73.0	74.3	78.8	80.4	81.2	81.7	82.9	83.0	83.0	
GE 800	20.8	26.6	42.8	53.9	57.6	66.4	73.8	75.1	79.6	81.6	82.4	82.9	84.0	84.2	84.2	
GE 700	20.8	26.6	43.0	54.5	58.3	67.4	74.7	76.0	80.5	82.5	83.3	83.9	85.2	85.3	85.3	
GE 600	20.8	26.6	43.0	54.7	58.7	68.2	75.5	77.0	81.6	83.7	84.5	85.1	86.4	86.5	86.5	
GE 500	20.9	26.7	43.1	55.0	59.1	68.9	77.0	78.6	83.6	85.9	86.8	87.4	88.8	88.9	88.9	
GE 400	20.9	26.7	43.3	55.1	59.2	69.1	77.7	79.6	85.0	87.6	88.6	89.4	91.0	91.1	91.1	
GE 300	20.9	26.7	43.3	55.1	59.2	69.3	78.0	80.3	86.1	88.7	90.3	91.0	93.1	93.6	93.9	
GE 200	20.9	26.7	43.3	55.1	59.2	69.3	78.0	80.4	86.3	89.1	90.9	92.4	95.3	96.6	97.4	
GE 100	20.9	26.7	43.3	55.1	59.2	69.3	78.0	80.4	86.3	89.1	91.1	92.9	96.1	97.5	99.6	
GE 0	20.9	26.7	43.3	55.1	59.2	69.3	78.0	80.4	86.3	89.1	91.1	92.9	96.1	97.6	100.0	

TOTAL NUMBER OF OBSERVATIONS: 846

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: FEB HOURS(LST): 0900-1100

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	9.6	11.6	19.3	23.5	25.4	27.3	29.2	29.9	30.9	31.2	31.6	31.6	31.8	31.8	31.8	
GE 20000	10.4	12.4	20.8	25.4	27.5	30.1	32.3	33.0	34.3	34.6	35.1	35.1	35.3	35.3	35.3	
GE 18000	11.5	13.5	22.3	27.0	29.1	31.9	34.2	34.9	36.2	36.5	37.0	37.0	37.2	37.2	37.2	
GE 16000	11.9	13.9	22.8	27.4	29.6	32.4	34.6	35.3	36.6	37.0	37.5	37.5	37.7	37.7	37.7	
GE 14000	12.1	14.1	22.9	27.8	29.9	32.7	35.0	35.7	37.0	37.4	37.8	37.8	38.1	38.1	38.1	
GE 12000	12.3	14.3	23.2	28.0	30.1	33.0	35.2	35.9	37.4	37.7	38.2	38.2	38.4	38.4	38.4	
GE 10000	12.5	14.5	23.8	28.6	30.7	33.8	36.4	37.1	38.8	39.1	39.7	39.7	40.0	40.0	40.0	
GE 9000	12.5	14.5	23.8	28.6	30.7	34.0	36.6	37.4	39.1	39.5	40.1	40.1	40.3	40.3	40.3	
GE 8000	13.5	15.6	25.1	29.9	32.0	35.6	38.2	38.9	40.7	41.0	41.6	41.6	42.0	42.0	42.0	
GE 7000	14.2	16.3	25.8	30.7	32.9	36.4	39.2	40.1	42.2	42.6	43.1	43.1	43.5	43.5	43.5	
GE 6000	14.2	16.3	25.8	30.9	33.0	36.5	39.4	40.2	42.4	42.8	43.4	43.5	43.9	43.9	43.9	
GE 5000	15.0	17.1	27.0	32.3	34.5	38.1	40.9	41.7	44.0	44.3	44.9	45.0	45.4	45.4	45.4	
GE 4500	15.2	17.7	28.3	33.8	36.2	40.0	42.8	43.7	46.0	46.3	46.9	47.0	47.4	47.4	47.4	
GE 4000	16.4	19.3	30.3	36.5	39.2	43.0	45.9	46.8	49.1	49.5	50.1	50.6	50.9	50.9	50.9	
GE 3500	17.0	19.9	31.0	37.4	40.1	44.0	47.0	48.0	50.7	51.2	51.8	52.2	52.6	52.6	52.6	
GE 3000	19.0	22.0	33.8	41.0	44.0	48.5	51.9	53.1	56.0	56.7	57.3	57.8	58.2	58.2	58.2	
GE 2500	19.9	23.0	35.9	43.9	47.2	51.7	55.2	56.4	59.3	60.0	60.6	61.1	61.5	61.5	61.5	
GE 2000	21.6	24.9	38.4	46.6	50.2	54.8	58.9	60.2	63.5	64.4	65.1	65.6	66.0	66.0	66.0	
GE 1800	21.9	25.2	39.0	47.8	51.4	56.0	60.0	61.3	64.7	65.6	66.3	66.8	67.1	67.1	67.1	
GE 1600	23.5	27.3	42.1	51.5	55.2	60.1	66.3	67.6	71.0	72.0	72.8	73.3	73.8	73.8	73.8	
GE 1200	24.3	28.5	44.9	55.2	59.0	66.4	71.3	72.6	76.5	77.4	78.3	78.7	79.2	79.2	79.2	
GE 1000	24.8	29.4	46.8	57.3	61.5	69.3	74.8	76.4	80.7	82.0	83.6	84.3	84.9	84.8	84.8	
GE 900	24.8	29.4	47.0	57.9	62.1	70.3	75.9	77.4	81.8	83.2	85.1	85.9	86.4	86.4	86.4	
GE 800	24.9	29.6	47.3	58.2	62.6	71.2	77.0	78.5	83.1	84.5	86.4	87.4	88.1	88.1	88.1	
GE 700	24.9	29.6	47.3	58.5	63.1	71.9	77.8	79.4	84.2	85.7	87.9	89.0	89.7	89.7	89.7	
GE 600	24.9	29.6	47.3	58.9	63.6	72.7	78.6	80.6	85.7	87.2	89.5	90.7	91.5	91.5	91.5	
GE 500	24.9	29.6	47.3	59.0	63.7	72.9	79.6	81.3	87.1	89.0	91.6	92.8	93.6	93.6	93.6	
GE 400	24.9	29.6	47.3	59.0	63.8	73.0	79.9	81.7	87.9	90.0	92.9	94.1	95.0	95.2	95.3	
GE 300	24.9	29.6	47.3	59.0	63.8	73.0	80.0	81.8	88.3	90.5	93.6	94.9	96.3	96.6	96.9	
GE 200	24.9	29.6	47.3	59.0	63.8	73.0	80.0	81.9	88.9	91.1	94.2	95.5	97.6	98.7	99.2	
GE 100	24.9	29.6	47.3	59.0	63.8	73.0	80.0	81.9	88.9	91.1	94.2	95.5	97.8	98.8	99.8	
GE 0	24.9	29.6	47.3	59.0	63.8	73.0	80.0	81.9	88.9	91.1	94.2	95.5	97.8	98.8	100.0	

TOTAL NUMBER OF OBSERVATIONS: 846

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 78-87
MONTH: FEB HOURS(LST): 1200-1400

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 96	GE 80	GE 64	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	18.9	22.6	29.3	31.7	32.3	33.5	34.6	34.8	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9
GE 20000	20.6	24.6	32.6	35.3	35.9	37.1	38.3	38.4	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5
GE 18000	21.5	25.8	34.3	37.0	37.6	39.1	40.3	40.4	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5
GE 16000	21.9	26.1	34.6	37.4	37.9	39.5	40.7	40.8	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9
GE 14000	22.0	26.2	35.1	37.8	38.4	40.0	41.1	41.3	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4
GE 12000	22.5	26.8	35.7	38.5	39.1	40.8	42.0	42.1	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2
GE 10000	23.9	28.3	37.4	40.4	41.0	43.0	44.3	44.4	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6
GE 9000	24.1	28.5	37.6	40.7	41.3	43.3	44.6	44.7	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2
GE 8000	24.6	29.0	38.3	41.7	42.3	45.0	46.3	46.5	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9
GE 7000	25.7	30.3	39.7	43.4	44.0	46.7	48.1	48.2	48.7	48.9	48.9	48.9	48.9	48.9	48.9	48.9
GE 6000	25.7	30.3	39.7	43.5	44.1	46.8	48.2	48.3	48.8	49.1	49.1	49.1	49.1	49.1	49.1	49.1
GE 5000	27.1	31.7	41.4	45.2	45.7	48.5	50.2	50.4	50.8	51.1	51.1	51.1	51.1	51.1	51.1	51.1
GE 4500	27.9	33.2	43.1	46.9	47.5	50.4	52.2	52.4	52.8	53.1	53.1	53.1	53.1	53.1	53.1	53.1
GE 4000	29.7	35.0	46.0	50.4	51.2	54.1	56.0	56.3	56.7	57.0	57.0	57.0	57.0	57.0	57.0	57.0
GE 3500	31.1	36.4	47.4	52.4	53.5	56.5	58.4	58.6	59.1	59.3	59.3	59.3	59.3	59.3	59.3	59.3
GE 3000	33.6	39.1	50.7	56.0	57.4	61.0	63.7	64.1	64.7	64.9	64.9	64.9	64.9	64.9	64.9	64.9
GE 2500	35.0	40.5	53.0	58.6	60.0	63.6	66.4	66.8	67.4	67.6	67.6	67.6	67.6	67.6	67.6	67.6
GE 2000	37.0	42.6	55.9	61.8	63.4	67.1	70.7	71.3	72.5	72.8	72.8	72.8	72.8	72.8	72.8	72.8
GE 1800	37.6	43.1	56.7	62.8	64.3	68.1	71.6	72.3	73.5	73.9	73.9	73.9	73.9	73.9	73.9	73.9
GE 1500	39.1	44.7	58.6	65.7	67.4	71.6	76.0	76.8	78.0	78.4	78.4	78.4	78.4	78.4	78.4	78.4
GE 1200	39.8	45.9	60.4	68.9	71.2	75.5	80.0	80.9	82.2	82.5	82.5	82.5	82.5	82.5	82.5	82.5
GE 1000	40.1	46.5	62.2	72.0	74.7	80.0	84.6	85.6	87.2	87.6	87.6	87.7	87.9	87.9	87.9	87.9
GE 900	40.1	46.5	62.3	72.5	75.2	80.9	85.6	86.5	88.3	88.8	88.8	88.9	89.1	89.1	89.1	89.1
GE 800	40.1	46.5	62.5	73.2	75.9	81.6	86.8	87.8	90.0	90.4	90.4	90.5	90.8	90.8	90.8	90.8
GE 700	40.1	46.5	62.5	73.3	76.0	81.7	87.1	88.3	90.5	91.3	91.5	91.6	92.2	92.2	92.2	92.2
GE 600	40.1	46.5	62.6	73.8	76.6	82.4	88.3	89.5	92.3	93.1	93.4	93.6	94.2	94.2	94.2	94.2
GE 500	40.1	46.5	62.8	74.0	77.0	83.5	90.2	91.6	94.9	95.9	96.5	96.7	97.5	97.5	97.5	97.5
GE 400	40.1	46.5	62.8	74.0	77.0	83.6	90.4	91.8	95.6	96.6	97.2	97.8	98.6	98.6	98.6	98.6
GE 300	40.1	46.5	62.8	74.0	77.0	83.6	90.5	92.0	95.7	97.0	97.6	98.3	99.2	99.2	99.2	99.2
GE 200	40.1	46.5	62.8	74.0	77.0	83.6	90.5	92.1	96.2	97.5	98.2	98.9	99.8	100.0	100.0	100.0
GE 100	40.1	46.5	62.8	74.0	77.0	83.6	90.5	92.1	96.2	97.5	98.2	98.9	99.8	100.0	100.0	100.0
GE 0	40.1	46.5	62.8	74.0	77.0	83.6	90.5	92.1	96.2	97.5	98.2	98.9	99.8	100.0	100.0	

TOTAL NUMBER OF OBSERVATIONS: 846

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFH

PERIOD OF RECORD: 78-87
MONTH: FEB HOURS(LST): 1500-1700

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	23.4	26.0	31.7	34.2	34.9	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
GE 20000	25.3	28.0	35.2	37.8	38.5	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7
GE 18000	26.1	29.0	36.4	39.0	39.7	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9
GE 16000	26.5	29.3	36.8	39.4	40.1	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
GE 14000	26.7	29.6	37.0	39.6	40.3	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5
GE 12000	27.7	30.5	37.9	40.5	41.3	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
GE 10000	29.4	32.6	40.2	42.8	43.5	45.0	45.0	45.0	45.2	45.2	45.3	45.3	45.3	45.3	45.3	45.3
GE 9000	29.7	32.9	40.8	43.4	44.1	45.6	45.6	45.6	45.7	45.7	45.9	45.9	45.9	45.9	45.9	45.9
GE 8000	30.4	33.7	41.7	45.0	46.1	48.5	48.6	48.6	48.8	48.8	48.9	48.9	48.9	48.9	48.9	48.9
GE 7000	31.3	35.1	44.0	47.4	48.6	51.1	51.5	51.5	51.8	52.1	52.2	52.2	52.2	52.2	52.2	52.2
GE 6000	31.4	35.2	44.3	48.1	49.3	51.8	52.2	52.2	52.5	52.8	53.0	53.0	53.0	53.0	53.0	53.0
GE 5000	32.2	35.9	45.0	48.8	50.0	52.5	53.1	53.1	53.3	53.7	53.8	53.8	53.8	53.8	53.8	53.8
GE 4500	33.1	36.9	46.3	50.1	51.3	53.9	54.5	54.5	54.7	55.1	55.2	55.2	55.2	55.2	55.2	55.2
GE 4000	35.9	40.1	50.0	54.1	55.4	58.3	59.1	59.1	59.3	59.7	59.8	59.8	59.8	59.8	59.8	59.8
GE 3500	37.7	41.8	51.9	56.9	58.2	61.1	61.9	61.9	62.4	62.8	62.9	62.9	62.9	62.9	62.9	62.9
GE 3000	41.6	46.0	57.1	62.6	64.1	67.6	68.6	68.8	69.4	69.7	69.9	69.9	69.9	69.9	69.9	69.9
GE 2500	42.4	46.9	58.9	64.9	66.3	69.9	71.0	71.0	71.6	72.0	72.1	72.1	72.1	72.1	72.1	72.1
GE 2000	43.1	48.0	60.6	67.8	69.5	73.4	75.3	75.5	76.4	77.1	77.2	77.2	77.2	77.2	77.2	77.2
GE 1800	43.3	48.1	60.8	68.1	69.7	73.9	75.8	76.0	76.8	77.5	77.7	77.7	77.7	77.7	77.7	77.7
GE 1500	44.0	48.9	62.2	70.6	72.7	77.5	79.8	80.1	81.1	81.8	82.0	82.2	82.2	82.2	82.2	82.2
GE 1200	44.7	49.8	63.9	73.5	75.7	80.7	83.9	84.3	85.3	86.1	86.4	86.5	86.5	86.5	86.5	86.5
GE 1000	45.2	50.4	65.6	75.8	78.0	83.3	86.6	87.1	88.4	89.1	89.7	89.8	89.8	89.8	89.8	89.8
GE 900	45.2	50.4	65.6	75.9	78.1	83.5	87.0	87.5	89.0	89.7	90.3	90.4	90.4	90.4	90.4	90.4
GE 800	45.2	50.4	65.6	76.2	78.6	84.4	88.2	88.8	90.3	91.0	91.6	91.7	91.8	91.8	91.8	91.8
GE 700	45.2	50.4	66.1	77.0	79.3	85.1	89.2	90.0	91.6	92.4	93.1	93.3	93.7	93.9	93.9	93.9
GE 600	45.2	50.4	66.1	77.1	79.4	85.5	89.7	90.7	92.3	93.1	93.9	94.1	94.6	94.7	94.7	94.7
GE 500	45.2	50.4	66.5	77.5	80.3	86.8	91.6	92.6	94.2	95.3	96.5	96.8	97.4	97.5	97.5	97.5
GE 400	45.2	50.4	66.5	77.5	80.3	86.8	91.6	92.6	94.6	95.7	97.2	97.5	98.5	98.6	98.6	98.6
GE 300	45.2	50.4	66.5	77.5	80.3	86.8	91.7	92.7	94.8	96.0	97.5	98.1	99.2	99.3	99.4	99.4
GE 200	45.2	50.4	66.5	77.5	80.3	86.8	91.7	92.7	94.8	96.0	97.5	98.1	99.4	99.5	99.6	99.6
GE 100	45.2	50.4	66.5	77.5	80.3	86.8	91.7	92.7	94.8	96.0	97.5	98.1	99.5	99.6	100.0	100.0
GE 0	45.2	50.4	66.5	77.5	80.3	86.8	91.7	92.7	94.8	96.0	97.5	98.1	99.5	99.6	100.0	

TOTAL NUMBER OF OBSERVATIONS: 846

GLOBAL CLIMATOLOGY BRANCH — PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
USAFETAC — FROM HOURLY OBSERVATIONS
AIR WEATHER SERVICE/MAC

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER — PERIOD OF RECORD: 78-87
MONTH: FEB HOURS(LST): 1800-2000

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 96	GE 80	GE 64	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	20.0	24.6	31.4	34.6	35.2	37.0	37.5	37.6	38.2	38.3	38.5	38.5	38.8	38.8	38.9	
GE 20000	20.6	25.7	33.7	37.1	37.7	39.6	40.3	40.4	41.0	41.1	41.4	41.4	41.6	41.6	41.7	
GE 18000	21.0	26.2	35.0	38.4	39.0	40.9	41.6	41.7	42.3	42.4	42.7	42.7	42.9	42.9	43.0	
GE 16000	21.0	26.2	35.0	38.4	39.0	40.9	41.6	41.7	42.3	42.4	42.7	42.7	42.9	42.9	43.0	
GE 14000	21.3	26.5	35.2	38.8	39.4	41.3	42.1	42.2	42.8	42.9	43.1	43.1	43.4	43.4	43.5	
GE 12000	21.7	27.0	35.7	39.2	39.8	41.7	42.6	42.7	43.3	43.4	43.6	43.6	43.9	43.9	44.0	
GE 10000	21.7	27.0	35.8	40.2	40.8	42.8	43.6	43.7	44.3	44.4	44.7	44.7	44.9	44.9	45.0	
GE 9000	22.0	27.3	36.5	41.0	41.6	43.6	44.4	44.6	45.2	45.3	45.5	45.5	45.9	45.9	46.0	
GE 8000	22.6	27.9	37.1	41.6	42.2	44.7	45.7	45.9	46.6	46.8	47.0	47.0	47.4	47.4	47.5	
GE 7000	22.9	28.3	38.1	42.7	43.3	45.9	47.0	47.2	47.9	48.1	48.3	48.5	48.8	48.8	48.9	
GE 6000	22.9	28.3	38.1	42.7	43.3	46.0	47.2	47.3	48.0	48.2	48.5	48.6	48.9	48.9	49.1	
GE 5000	23.3	29.0	38.8	43.7	44.3	47.0	48.2	48.3	49.1	49.3	49.5	49.6	50.0	50.0	50.1	
GE 4500	24.2	30.1	41.3	46.6	47.2	50.4	51.7	51.8	52.5	52.7	53.0	53.1	53.4	53.4	53.5	
GE 4000	25.1	31.1	42.8	48.5	49.1	53.1	54.5	54.6	55.3	55.6	55.8	56.0	56.5	56.5	56.6	
GE 3500	26.5	32.5	44.9	50.6	51.3	55.4	57.2	57.3	58.0	58.3	58.5	59.0	59.5	59.5	59.6	
GE 3000	28.1	34.5	48.1	54.7	55.9	60.4	62.5	62.8	63.6	64.1	64.5	65.0	65.5	65.5	65.6	
GE 2500	29.3	35.7	50.1	57.4	58.6	63.6	65.6	66.1	67.1	67.4	67.8	68.3	68.8	68.8	68.9	
GE 2000	31.1	37.8	52.5	60.8	62.5	68.6	71.5	72.0	73.3	73.5	74.2	74.8	75.3	75.3	75.4	
GE 1800	31.1	38.1	52.8	61.2	63.1	69.1	72.2	72.7	74.2	74.5	75.2	75.8	76.2	76.2	76.4	
GE 1500	32.0	39.2	54.8	63.9	66.0	72.3	76.6	77.1	78.7	79.0	79.7	80.3	80.7	80.7	80.9	
GE 1200	32.4	39.8	56.3	66.0	66.2	75.1	79.8	80.4	83.1	83.3	84.2	84.9	85.3	85.3	85.5	
GE 1000	33.0	40.5	57.6	68.1	70.4	78.1	83.3	84.2	87.0	87.2	88.1	88.8	89.5	89.5	89.6	
GE 900	33.0	40.5	57.6	68.1	70.4	78.1	83.5	84.3	87.1	87.4	88.2	88.9	89.6	89.6	89.7	
GE 800	33.0	40.5	57.6	68.3	70.7	78.5	83.8	84.6	87.7	88.1	88.9	89.6	90.4	90.4	90.5	
GE 700	33.0	40.5	58.2	68.7	71.2	79.1	84.5	85.6	88.8	89.4	90.2	90.9	92.1	92.1	92.2	
GE 600	33.0	40.5	58.2	68.8	71.3	79.2	85.2	86.4	89.8	90.5	91.6	92.7	93.9	93.9	94.0	
GE 500	33.0	40.5	58.4	69.0	71.5	79.6	86.2	87.4	90.8	91.5	92.9	94.0	95.2	95.2	95.3	
GE 400	33.0	40.5	58.4	69.0	71.5	79.6	86.9	88.2	91.6	92.3	93.7	95.6	97.2	97.2	97.3	
GE 300	33.0	40.5	58.4	69.0	71.5	79.6	86.9	88.4	91.8	92.6	94.2	96.1	97.6	97.8	98.2	
GE 200	33.0	40.5	58.4	69.0	71.5	79.6	86.9	88.4	92.0	92.7	94.6	96.5	98.0	98.5	99.1	
GE 100	33.0	40.5	58.4	69.0	71.5	79.6	86.9	88.4	92.0	92.7	94.6	96.5	98.1	98.6	99.8	
GE 0	33.0	40.5	58.4	69.0	71.5	79.6	86.9	88.4	92.0	92.7	94.6	96.5	98.1	98.6	100.0	

TOTAL NUMBER OF OBSERVATIONS: 846

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: FEB HOURS(LST): 2100-2300

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		16.1	20.8	28.0	31.1	31.7	34.9	35.8	36.1	36.9	37.0	37.7	37.7	37.9	37.9	38.3
GE 20000		16.7	21.4	29.3	32.4	33.0	36.3	37.2	37.5	38.3	38.4	39.1	39.1	39.4	39.4	39.7
GE 18000		16.7	21.4	29.6	32.7	33.3	36.6	37.6	37.8	38.7	38.8	39.5	39.5	39.7	39.7	40.1
GE 16000		16.7	21.4	29.6	32.7	33.3	36.6	37.6	37.8	38.8	38.9	39.6	39.6	39.8	39.8	40.2
GE 14000		16.7	21.4	29.7	33.1	33.7	37.0	37.9	38.2	39.1	39.2	40.0	40.0	40.2	40.2	40.5
GE 12000		16.8	21.5	30.1	33.7	34.3	37.6	38.8	39.0	40.0	40.1	40.8	40.8	41.0	41.0	41.4
GE 10000		16.9	22.1	30.9	34.5	35.1	38.8	40.1	40.3	41.3	41.4	42.1	42.1	42.3	42.3	42.7
GE 9000		17.1	22.3	31.2	35.0	35.6	39.2	40.5	40.8	41.7	41.8	42.6	42.6	42.8	42.8	43.1
GE 8000		17.6	22.8	32.0	35.8	36.4	40.2	41.5	41.7	42.7	42.8	43.5	43.5	43.7	43.7	44.1
GE 7000		18.3	23.5	33.2	37.0	37.6	41.6	42.9	43.1	44.1	44.2	44.9	45.0	45.3	45.3	45.6
GE 6000		18.3	23.5	33.2	37.0	37.6	41.6	42.9	43.1	44.2	44.3	45.0	45.2	45.4	45.4	45.9
GE 5000		19.0	24.2	34.2	38.1	38.7	42.7	44.3	44.6	45.6	45.7	46.6	46.7	46.9	46.9	47.4
GE 4500		19.9	25.1	36.1	40.1	40.7	45.0	46.9	47.2	48.2	48.3	49.2	49.3	49.5	49.5	50.0
GE 4000		20.3	25.8	37.7	42.0	42.6	47.4	49.4	49.6	50.8	50.9	51.8	51.9	52.4	52.5	53.0
GE 3500		21.2	26.7	39.5	44.1	44.7	49.6	51.8	52.0	53.2	53.3	54.1	54.3	54.7	54.8	55.3
GE 3000		23.2	29.1	44.4	49.9	50.6	56.1	58.7	59.0	60.5	60.6	61.5	61.6	62.1	62.2	62.6
GE 2500		24.0	30.3	46.8	52.8	53.7	59.8	62.5	62.9	64.4	64.5	65.4	65.5	66.0	66.1	66.5
GE 2000		25.5	32.0	49.8	56.3	57.3	64.3	67.6	68.6	70.6	70.7	71.5	71.6	72.1	72.2	72.7
GE 1800		25.5	32.3	50.4	57.1	58.2	65.2	68.6	69.5	71.6	71.9	72.7	72.8	73.3	73.4	73.9
GE 1500		27.0	34.0	53.9	61.7	63.0	70.8	74.7	75.7	78.1	78.5	79.3	79.4	79.9	80.0	80.5
GE 1200		27.3	34.4	55.6	64.1	65.4	73.2	77.5	78.7	81.3	81.7	82.5	82.6	83.1	83.2	83.7
GE 1000		27.5	34.6	56.5	65.6	66.9	75.5	80.0	81.3	84.4	84.8	85.6	85.7	86.3	86.5	87.0
GE 900		27.5	34.6	56.5	65.7	67.0	75.9	80.4	81.7	84.8	85.1	85.9	86.1	86.8	87.0	87.6
GE 800		27.5	34.6	56.6	65.8	67.1	76.0	80.5	81.8	85.3	85.7	86.5	86.8	87.5	87.7	88.3
GE 700		27.5	34.6	56.6	65.8	67.1	76.6	81.3	82.6	86.2	86.5	87.4	87.6	88.7	88.9	89.5
GE 600		27.5	34.6	56.7	66.0	67.3	77.1	82.4	83.9	87.8	88.2	89.2	89.5	90.8	91.0	91.6
GE 500		27.5	34.6	56.7	66.0	67.3	77.1	82.6	84.2	88.4	88.8	90.1	90.3	91.6	91.8	92.4
GE 400		27.5	34.6	56.7	66.0	67.3	77.5	83.6	85.1	89.8	90.2	91.5	92.2	93.9	94.1	94.7
GE 300		27.5	34.6	56.7	66.0	67.3	77.5	83.6	85.2	90.1	90.5	91.8	92.7	94.3	94.6	95.3
GE 200		27.5	34.6	56.7	66.0	67.3	77.5	83.6	85.2	90.4	91.1	92.8	93.9	95.9	96.2	97.3
GE 100		27.5	34.6	56.7	66.0	67.3	77.5	83.6	85.2	90.4	91.1	92.8	94.2	96.2	96.8	99.1
GE 0		27.5	34.6	56.7	66.0	67.3	77.5	83.6	85.2	90.4	91.1	92.8	94.2	96.3	96.9	100.0

TOTAL NUMBER OF OBSERVATIONS: 846

GLOBAL CLIMATOLOGY BRANCH — PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
USAFETAC — FROM HOURLY OBSERVATIONS
AIR WEATHER SERVICE/MAC

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER — PERIOD OF RECORD: 78-87
MONTH: FEB HOURS(LST): ALL

CEILING IN FEET		VISIBILITY IN HUNDREDS OF METERS														
	LT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	15.8	19.1	25.8	28.8	29.6	32.0	33.3	33.5	34.6	34.8	35.2	35.3	35.5	35.5	35.6	
GE 20000	16.8	20.4	27.9	31.1	32.0	34.6	36.1	36.3	37.5	37.7	38.2	38.2	38.4	38.4	38.5	
GE 18000	17.2	20.9	28.7	32.1	33.1	35.8	37.3	37.6	38.7	38.9	39.4	39.4	39.6	39.7	39.8	
GE 16000	17.3	21.1	28.9	32.2	33.2	36.0	37.5	37.7	38.9	39.1	39.6	39.6	39.8	39.8	40.0	
GE 14000	17.4	21.2	29.1	32.5	33.5	36.2	37.7	38.0	39.2	39.4	39.8	39.9	40.1	40.1	40.2	
GE 12000	17.8	21.5	29.5	33.0	34.0	36.7	38.3	38.6	39.8	40.0	40.4	40.5	40.7	40.7	40.8	
GE 10000	18.5	22.4	30.6	34.3	35.3	38.3	39.9	40.2	41.4	41.6	42.1	42.2	42.4	42.4	42.5	
GE 9000	18.6	22.5	30.9	34.6	35.6	38.6	40.3	40.6	41.9	42.1	42.6	42.6	42.9	42.9	43.0	
GE 8000	19.1	23.1	31.7	35.5	36.6	39.9	41.7	41.9	43.4	43.5	44.0	44.1	44.3	44.4	44.5	
GE 7000	19.8	23.8	32.8	36.7	37.6	41.2	43.0	43.4	44.9	45.1	45.6	45.7	46.0	46.0	46.2	
GE 6000	19.8	23.8	32.8	36.8	37.9	41.4	43.2	43.5	45.1	45.3	45.8	45.9	46.2	46.2	46.4	
GE 5000	20.4	24.5	33.6	37.8	38.9	42.4	44.4	44.7	46.4	46.7	47.2	47.3	47.6	47.6	47.8	
GE 4500	21.1	25.4	35.3	39.7	40.9	44.5	46.7	47.1	48.9	49.1	49.7	49.8	50.0	50.1	50.2	
GE 4000	22.3	26.9	37.6	42.4	43.7	47.6	49.9	50.3	52.1	52.4	52.9	53.1	53.4	53.5	53.6	
GE 3500	23.2	27.9	39.0	44.1	45.4	49.5	52.0	52.4	54.3	54.6	55.2	55.4	55.7	55.8	55.9	
GE 3000	25.5	30.3	42.6	48.4	49.9	54.4	57.5	58.0	60.2	60.5	61.1	61.3	61.6	61.7	61.9	
GE 2500	26.2	31.3	44.7	50.9	52.5	57.4	60.6	61.1	63.4	63.7	64.3	64.5	64.8	64.9	65.1	
GE 2000	27.7	33.1	47.6	54.4	56.3	61.8	65.5	66.2	68.9	69.3	69.9	70.1	70.5	70.6	70.7	
GE 1800	28.1	33.5	48.4	55.3	57.2	62.8	66.5	67.3	70.1	70.5	71.1	71.4	71.7	71.8	72.0	
GE 1500	29.4	35.1	51.3	59.1	61.2	67.5	71.8	72.6	75.5	76.0	76.6	76.8	77.2	77.3	77.5	
GE 1200	30.0	35.8	53.4	62.1	64.5	71.3	76.2	77.0	80.3	80.7	81.4	81.7	82.1	82.2	82.3	
GE 1000	30.3	36.3	54.7	64.1	66.6	74.1	79.4	80.4	84.0	84.6	85.5	85.8	86.3	86.4	86.5	
GE 900	30.3	36.4	54.8	64.3	66.9	74.5	79.9	81.0	84.6	85.3	86.2	86.5	87.0	87.1	87.3	
GE 800	30.4	36.5	55.0	64.8	67.4	75.2	80.8	81.8	85.7	86.4	87.4	87.7	88.3	88.4	88.6	
GE 700	30.4	36.5	55.2	65.1	67.8	75.9	81.6	82.8	86.7	87.5	88.5	88.9	89.7	89.9	90.1	
GE 600	30.4	36.5	55.2	65.2	68.0	76.4	82.4	83.7	87.8	88.7	89.8	90.3	91.1	91.3	91.5	
GE 500	30.4	36.5	55.4	65.5	68.4	77.0	83.5	84.8	89.3	90.3	91.6	92.1	93.1	93.3	93.5	
GE 400	30.4	36.5	55.4	65.6	68.4	77.1	83.9	85.3	90.1	91.2	92.7	93.4	94.6	94.8	95.0	
GE 300	30.4	36.5	55.4	65.6	68.4	77.2	84.1	85.6	90.6	91.8	93.5	94.4	95.8	96.1	96.5	
GE 200	30.4	36.5	55.4	65.6	68.4	77.2	84.1	85.7	90.9	92.1	93.9	95.1	96.9	97.5	98.3	
GE 100	30.4	36.5	55.4	65.6	68.4	77.2	84.1	85.7	90.9	92.2	94.0	95.2	97.2	97.9	99.6	
GE 0	30.4	36.5	55.4	65.6	68.4	77.2	84.1	85.7	90.9	92.2	94.0	95.2	97.3	98.0	100.0	

TOTAL NUMBER OF OBSERVATIONS: 6768

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: MAR HOURS(LST): 0000-0200

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		17.1	20.8	27.3	31.0	32.2	34.9	35.3	35.3	36.1	36.1	36.1	36.7	36.9	37.0	37.3
GE 20000		19.5	22.9	30.4	34.5	35.7	38.8	39.1	39.1	40.0	40.0	40.0	40.5	40.8	40.9	41.2
GE 18000		19.5	22.9	30.5	34.7	35.9	39.0	39.5	39.5	40.3	40.3	40.3	40.9	41.1	41.2	41.5
GE 16000		19.5	22.9	30.5	34.7	35.9	39.0	39.5	39.5	40.3	40.3	40.3	40.9	41.1	41.2	41.5
GE 14000		19.6	23.0	30.6	34.8	36.0	39.1	39.6	39.7	40.5	40.5	40.5	41.1	41.3	41.4	41.7
GE 12000		19.7	23.2	30.9	35.1	36.2	39.4	39.8	39.9	40.8	40.8	40.8	41.3	41.5	41.6	41.9
GE 10000		20.6	24.2	32.6	36.8	38.0	41.1	41.5	41.6	42.6	42.6	42.6	43.1	43.3	43.4	43.8
GE 9000		20.8	24.4	32.8	37.2	38.5	41.6	42.0	42.2	43.1	43.1	43.1	43.7	43.9	44.0	44.3
GE 8000		22.8	26.8	35.4	40.1	41.5	44.9	45.5	45.8	46.8	46.8	46.8	47.3	47.5	47.6	48.0
GE 7000		24.4	28.7	37.8	42.7	44.7	48.2	48.9	49.2	50.3	50.3	50.3	50.9	51.3	51.4	51.8
GE 6000		24.6	28.9	38.3	43.1	45.2	48.6	49.4	50.0	51.3	51.3	51.3	51.8	52.3	52.4	52.8
GE 5000		25.3	30.0	40.1	45.1	47.1	50.8	51.6	52.3	53.5	53.5	53.7	54.2	54.6	54.7	55.2
GE 4500		26.5	31.5	42.2	47.4	49.7	53.5	54.5	55.2	56.8	56.8	56.9	57.4	57.8	58.0	58.4
GE 4000		28.5	33.5	45.2	51.0	53.4	57.6	58.9	59.6	61.4	61.5	61.7	62.3	62.9	63.1	63.5
GE 3500		30.0	35.6	47.7	53.5	56.0	60.3	61.7	62.4	64.2	64.3	64.5	65.1	65.7	65.9	66.3
GE 3000		32.3	38.4	52.2	59.1	61.6	65.9	67.5	68.2	70.3	70.4	70.6	71.2	71.8	72.0	72.5
GE 2500		33.7	39.9	54.1	61.2	63.9	68.4	70.2	70.9	73.1	73.2	73.4	74.0	74.6	74.8	75.3
GE 2000		34.9	41.3	57.4	64.5	67.3	72.4	74.3	75.1	77.3	77.4	77.6	78.4	79.0	79.2	79.7
GE 1800		35.5	41.8	58.2	65.3	68.2	73.8	75.7	76.5	79.0	79.1	79.5	80.2	80.9	81.1	81.5
GE 1500		35.7	42.2	58.9	66.7	69.7	75.6	77.8	78.6	81.6	81.7	82.0	82.8	83.7	83.9	84.3
GE 1200		36.1	42.7	59.9	68.8	72.0	78.1	80.5	81.3	84.5	84.6	85.1	85.8	87.0	87.2	87.6
GE 1000		36.5	43.5	61.0	70.0	73.3	79.5	82.6	83.7	87.2	87.3	87.7	88.5	89.7	89.9	90.3
GE 900		36.5	43.5	61.1	70.3	73.7	79.8	82.9	84.0	87.6	87.7	88.2	88.9	90.1	90.3	90.8
GE 800		36.5	43.5	61.1	70.5	73.9	80.2	83.3	84.4	88.2	88.3	88.7	89.5	90.6	90.9	91.3
GE 700		36.6	43.7	61.2	70.6	74.0	80.3	83.4	84.5	88.3	88.4	88.8	89.6	90.8	91.0	91.4
GE 600		36.6	43.7	61.7	71.2	74.8	81.5	84.8	85.9	89.7	89.8	90.2	91.0	92.2	92.4	92.8
GE 500		36.6	43.7	61.8	71.7	75.5	82.2	85.7	86.9	91.0	91.1	91.5	92.3	93.5	93.8	94.2
GE 400		36.9	44.0	62.4	72.3	76.0	82.8	86.5	87.7	92.3	92.4	92.9	93.8	95.1	95.4	95.8
GE 300		36.9	44.0	62.4	72.3	76.0	82.9	86.6	87.8	92.6	93.2	93.9	94.8	96.5	96.9	97.4
GE 200		36.9	44.0	62.4	72.3	76.0	82.9	86.6	88.1	93.3	93.8	94.4	95.5	97.6	98.5	99.2
GE 100		36.9	44.0	62.4	72.3	76.0	82.9	86.8	88.1	93.3	93.8	94.4	95.5	97.6	98.7	99.6
GE 0		36.9	44.0	62.4	72.3	76.0	82.9	86.8	88.1	93.3	93.8	94.4	95.5	97.6	98.7	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH — PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
USAFETAC — FROM HOURLY OBSERVATIONS
AIR WEATHER SERVICE/MAC

STATION NUMBER: 10870 STATION NAME: GRAFENWOHR AAF GER — PERIOD OF RECORD: 78-87
MONTH: MAR — HOURS(LST): 0300-0500

CEILING IN FEET		GT 10	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL			12.1	13.6	22.2	25.8	27.4	29.8	31.1	31.1	31.4	31.4	31.4	31.8	31.9	32.0	32.2
GE	20000		13.3	15.4	24.8	28.6	30.2	32.9	34.2	34.2	34.6	34.6	34.6	34.9	35.0	35.1	35.3
GE	18000		13.6	15.6	25.0	29.1	30.7	33.4	34.7	34.7	35.0	35.0	35.0	35.3	35.4	35.5	35.7
GE	16000		13.6	15.6	25.0	29.1	30.7	33.4	34.7	34.7	35.0	35.0	35.0	35.3	35.4	35.5	35.7
GE	14000		13.7	15.7	25.1	29.2	30.8	33.5	34.8	34.8	35.1	35.1	35.1	35.4	35.5	35.6	35.8
GE	12000		14.5	16.6	25.9	30.0	31.6	34.3	35.6	35.8	36.2	36.2	36.2	36.5	36.6	36.7	36.9
GE	10000		15.6	18.0	27.7	31.8	33.4	36.1	37.5	37.7	38.1	38.5	38.5	38.9	39.0	39.1	39.3
GE	9000		16.1	18.6	28.8	32.9	34.7	37.4	38.8	39.0	39.4	39.8	39.8	40.2	40.3	40.4	40.6
GE	8000		17.4	20.2	30.7	34.9	36.6	39.3	40.7	41.0	41.7	42.1	42.1	42.4	42.5	42.6	42.8
GE	7000		18.1	20.9	31.4	35.8	37.7	40.4	41.9	42.2	42.8	43.5	43.5	43.8	43.9	44.0	44.2
GE	6000		18.3	21.2	31.8	36.2	38.0	40.8	42.3	42.8	43.5	44.1	44.1	44.5	44.6	44.7	44.9
GE	5000		19.7	22.7	33.4	38.0	39.8	42.6	44.5	45.0	45.6	46.3	46.5	46.8	46.9	47.0	47.3
GE	4500		21.0	24.3	35.7	40.4	42.4	45.7	47.8	48.3	49.0	49.6	49.8	50.5	50.6	50.7	50.9
GE	4000		22.4	26.3	38.3	43.4	45.6	49.2	51.7	52.4	53.2	53.9	54.0	54.7	54.9	55.0	55.2
GE	3500		23.1	27.2	40.6	45.3	47.8	51.3	53.8	54.6	55.4	56.1	56.4	57.1	57.3	57.4	57.6
GE	3000		26.0	30.5	44.8	51.1	53.7	57.6	60.1	60.8	61.8	62.4	62.8	63.5	63.7	63.8	64.0
GE	2500		27.7	32.1	47.1	53.7	56.3	60.5	63.1	63.8	65.0	65.7	66.0	66.7	67.0	67.1	67.3
GE	2000		29.9	34.6	51.2	58.2	61.6	65.9	68.7	69.8	71.2	71.8	72.2	73.2	73.4	73.5	73.7
GE	1800		30.5	35.2	52.2	59.2	62.8	67.1	69.9	70.9	72.4	73.1	73.5	74.6	75.0	75.1	75.3
GE	1500		31.3	36.5	54.3	61.9	66.3	70.7	73.7	74.8	76.9	77.6	78.1	79.2	79.8	79.9	80.1
GE	1200		32.3	37.7	56.0	64.5	69.6	74.4	77.5	78.7	81.2	81.9	82.6	83.6	84.2	84.3	84.5
GE	1000		32.6	38.2	57.3	66.0	71.7	76.4	79.9	81.4	84.2	84.9	85.8	87.0	87.5	87.6	87.8
GE	900		32.6	38.2	57.7	66.4	72.1	76.9	80.3	81.8	84.6	85.5	86.3	87.5	88.1	88.2	88.4
GE	800		32.6	38.4	57.9	66.6	72.3	77.3	80.7	82.2	85.3	86.1	87.0	88.2	88.7	88.8	89.0
GE	700		32.9	38.8	58.3	67.2	73.0	78.0	81.6	83.1	86.2	87.1	87.9	89.1	89.8	89.9	90.1
GE	600		32.9	38.8	58.6	67.6	73.7	78.8	82.3	84.0	87.1	87.9	88.8	90.0	90.6	90.7	91.0
GE	500		33.0	39.0	59.1	68.4	74.5	79.7	84.0	85.6	88.7	89.6	90.5	91.8	92.5	92.6	92.8
GE	400		33.3	39.2	59.6	68.9	75.0	80.2	85.1	86.9	90.2	91.1	92.0	93.6	94.5	94.6	94.8
GE	300		33.3	39.2	59.6	68.9	75.0	80.2	85.1	86.9	90.5	91.5	92.5	94.1	95.4	95.6	95.9
GE	200		33.4	39.3	59.7	69.0	75.1	80.3	85.4	87.2	91.2	92.2	93.3	95.2	97.0	97.5	98.0
GE	100		33.4	39.3	59.7	69.0	75.1	80.3	85.4	87.2	91.2	92.4	93.4	95.4	97.3	98.1	99.2
GE	0		33.4	39.3	59.7	69.0	75.1	80.3	85.4	87.2	91.2	92.4	93.4	95.4	97.3	98.2	100.0

TOTAL NUMBER OF OBSERVATIONS: 929

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 100870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: MAR HOURS(LST): 0600-0800

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS GT 100	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		9.0	10.0	14.0	19.5	[illegible]	22.5	25.5	25.7	26.5	27.0	27.1	27.1	27.3	27.4	27.8
GE 20000		10.9	11.4	17.1	23.7	25.6	27.1	[illegible]	30.4	31.2	31.7	31.8	31.8	32.2	32.4	32.9
GE 18000		10.9	12.4	17.2	23.9	26.0	28.3	30.5	31.1	31.5	32.4	32.5	32.5	32.6	33.0	33.5
GE 16000		10.9	12.4	17.2	23.9	26.0	28.1	30.9	31.1	31.6	32.4	32.5	32.5	32.8	33.0	33.5
GE 14000		11.0	12.5	17.4	24.2	26.3	28.5	31.2	31.5	32.3	32.8	32.9	32.9	33.2	33.4	34.0
GE 12000		11.4	12.9	18.0	24.7	26.9	29.1	32.0	32.4	33.1	33.7	33.6	33.8	34.1	34.3	34.8
GE 10000		11.9	13.4	18.9	25.9	28.2	30.4	33.3	33.7	34.4	34.9	35.1	35.1	35.5	35.7	36.2
GE 9000		12.3	13.9	19.4	26.5	28.7	31.1	34.0	34.4	35.2	35.7	35.8	35.8	36.2	36.5	37.0
GE 8000		13.5	15.2	21.7	29.0	31.3	33.6	36.8	37.2	38.1	38.6	38.7	39.7	39.1	39.4	39.9
GE 7000		14.2	15.6	22.6	30.3	32.7	35.5	38.4	39.9	39.9	40.4	40.5	40.5	41.1	41.3	41.6
GE 6000		14.5	16.1	22.9	30.8	33.1	35.9	39.0	39.6	40.5	41.1	41.3	41.3	41.8	42.0	42.6
GE 5000		15.4	17.1	24.2	32.3	34.9	37.7	41.0	41.5	42.6	43.1	43.3	43.3	43.9	44.1	44.6
GE 4500		15.7	17.4	25.4	33.8	36.6	39.7	42.9	43.4	44.7	45.3	45.5	45.6	46.2	46.5	47.0
GE 4000		16.1	17.8	26.3	35.5	38.4	41.6	45.5	46.1	47.5	48.1	48.4	48.5	49.2	49.6	50.1
GE 3500		17.4	19.6	28.6	38.0	41.0	44.5	48.2	48.8	50.4	51.0	51.3	51.5	52.4	52.8	53.3
GE 3000		19.6	22.2	32.0	41.8	45.3	49.4	53.1	53.8	55.6	56.1	56.5	56.7	57.6	58.1	58.6
GE 2500		21.4	23.9	34.6	45.3	46.6	53.1	57.1	57.8	59.8	60.3	60.6	60.9	61.9	62.4	62.9
GE 2000		24.0	27.2	39.6	51.5	55.4	60.4	64.5	65.5	67.6	68.3	68.9	69.2	70.4	70.9	71.4
GE 1800		25.2	27.7	40.2	52.2	56.0	61.2	65.3	66.2	68.5	69.1	69.6	70.4	71.6	72.0	72.6
GE 1500		27.0	29.6	42.5	55.7	59.9	65.4	69.7	70.6	73.2	74.0	74.8	75.5	76.7	77.1	77.6
GE 1200		27.8	30.6	44.6	58.4	63.0	68.7	74.0	75.2	78.1	78.8	79.8	80.4	81.6	82.0	82.6
GE 1000		28.1	31.0	45.2	59.5	64.5	70.6	76.3	77.6	80.9	81.7	82.9	84.0	85.2	85.6	86.1
GE 900		28.3	31.2	45.6	60.0	65.1	71.3	77.0	78.5	81.9	82.8	84.0	85.1	86.2	86.7	87.2
GE 800		28.3	31.4	45.9	61.0	66.2	72.5	78.4	79.9	83.4	84.3	85.5	86.6	87.7	88.3	88.8
GE 700		28.3	31.5	46.2	61.7	67.0	73.3	79.2	80.9	84.4	85.3	86.5	87.7	89.0	89.6	90.1
GE 600		28.3	31.5	46.2	61.6	67.2	73.9	80.1	81.7	85.4	86.2	87.4	88.7	90.3	91.0	91.5
GE 500		28.4	31.7	46.8	62.6	68.1	74.7	81.3	83.0	86.6	87.8	89.1	90.5	92.7	93.3	93.9
GE 400		28.4	31.7	46.8	62.6	68.1	74.8	81.6	83.4	87.6	88.7	90.1	91.8	94.3	94.9	95.5
GE 300		28.4	31.7	46.8	62.6	68.1	74.8	81.7	83.5	87.8	89.0	90.6	92.6	95.1	95.9	96.7
GE 200		28.4	31.7	46.8	62.6	68.1	74.8	81.8	83.7	88.0	89.1	90.9	93.1	96.0	97.1	98.5
GE 100		28.4	31.8	46.9	62.7	68.2	74.9	81.9	83.8	88.1	89.2	91.0	93.3	96.6	97.6	100.0
GE 0		28.4	31.8	46.9	62.7	68.2	74.9	81.9	83.8	88.1	89.2	91.0	93.3	96.6	97.6	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER PERIOD OF RECORD: 78-87
MONTH: MAR HOURS(LST): 0900-1100

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 16C	GE 96	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	10.2	11.8	17.5	21.4	21.8	23.3	23.5	23.7	23.9	24.1	24.1	24.3	24.4	24.5	24.6	
GE 20000	14.7	17.1	23.9	27.8	28.4	30.0	30.3	30.4	30.8	31.0	31.0	31.2	31.3	31.4	31.5	
GE 18000	15.1	17.7	25.1	29.0	29.6	31.2	31.5	31.6	31.9	32.2	32.2	32.4	32.5	32.6	32.7	
GE 16000	15.5	18.2	25.5	29.5	30.0	31.6	31.9	32.0	32.4	32.6	32.6	32.8	32.9	33.0	33.1	
GE 14000	15.5	18.2	25.6	29.6	30.1	31.7	32.0	32.2	32.5	32.7	32.7	32.9	33.0	33.1	33.2	
GE 12000	16.1	18.8	26.7	30.6	31.3	32.9	33.2	33.3	33.7	33.9	33.9	34.1	34.2	34.3	34.4	
GE 10000	16.7	19.4	27.5	31.7	32.5	34.2	34.5	34.6	34.9	35.2	35.2	35.4	35.5	35.6	35.7	
GE 9000	16.7	19.4	27.6	31.8	32.6	34.3	34.6	34.7	35.1	35.3	35.3	35.5	35.6	35.7	35.8	
GE 8000	18.2	21.0	29.8	34.2	35.1	37.1	37.4	37.5	38.0	38.2	38.2	38.4	38.5	38.6	38.7	
GE 7000	19.1	22.2	31.7	36.7	37.6	39.7	40.0	40.1	40.5	40.8	40.8	41.0	41.1	41.2	41.3	
GE 6000	19.4	22.4	31.9	37.2	38.2	40.2	40.5	40.6	41.1	41.3	41.3	41.5	41.6	41.7	41.8	
GE 5000	20.4	23.5	33.7	39.5	40.5	42.6	42.9	43.0	43.4	43.7	43.7	43.9	44.0	44.1	44.2	
GE 4500	21.2	24.3	34.6	40.5	41.6	43.7	44.1	44.2	44.7	44.9	44.9	45.2	45.3	45.4	45.5	
GE 4000	23.3	26.6	37.3	44.0	45.2	47.6	48.1	48.4	49.0	49.2	49.4	49.6	49.7	49.8	49.9	
GE 3500	24.8	28.1	39.2	46.2	47.4	49.9	50.4	50.8	51.5	51.7	51.8	52.0	52.3	52.4	52.5	
GE 3000	30.5	34.0	46.3	54.4	55.8	58.7	59.5	59.8	60.6	60.9	61.0	61.2	61.4	61.5	61.6	
GE 2500	32.3	35.7	49.1	57.6	59.2	62.4	63.2	63.5	64.4	64.6	64.7	64.9	65.4	65.5	65.6	
GE 2000	34.7	38.4	53.7	63.4	65.3	69.0	69.9	70.6	71.7	71.9	72.0	72.3	72.8	72.9	73.0	
GE 1800	35.2	38.8	54.1	64.0	65.6	69.6	70.4	71.2	72.3	72.5	72.6	72.8	73.3	73.4	73.5	
GE 1600	37.2	41.0	56.7	68.2	70.3	74.3	75.4	76.1	77.3	77.5	77.7	78.1	78.6	78.7	78.8	
GE 1200	38.8	42.6	58.8	71.4	74.0	78.2	79.7	80.6	82.2	82.4	82.6	82.9	83.4	83.5	83.7	
GE 1000	39.7	43.4	60.2	73.1	75.9	80.6	82.5	83.4	85.4	85.6	86.0	86.3	86.9	87.0	87.1	
GE 900	40.3	44.2	61.4	74.5	77.3	82.2	84.1	85.1	87.1	87.3	87.7	88.1	88.6	88.7	88.8	
GE 800	40.5	44.4	62.0	75.5	78.7	83.5	85.6	86.6	88.7	89.9	89.4	89.7	90.2	90.3	90.4	
GE 700	40.5	44.4	62.4	76.0	79.6	84.4	86.7	87.6	89.9	90.1	90.6	91.1	91.6	91.7	91.8	
GE 600	40.5	44.4	62.6	76.6	80.2	85.3	88.1	89.0	91.7	92.0	92.8	93.2	94.1	94.2	94.3	
GE 500	40.5	44.4	62.7	76.7	80.3	85.7	88.7	89.8	92.7	93.2	94.3	95.1	96.2	96.3	96.5	
GE 400	40.6	44.5	62.8	76.8	80.5	85.9	89.0	90.2	93.5	94.1	95.4	96.2	97.4	97.6	97.7	
GE 300	40.6	44.5	62.8	76.8	80.5	85.9	89.0	90.2	93.9	94.4	95.8	96.9	98.4	98.6	98.8	
GE 200	40.6	44.5	62.8	76.8	80.5	85.9	89.0	90.2	93.8	94.4	95.9	97.0	98.7	99.1	99.5	
GE 100	40.6	44.5	62.8	76.8	80.5	85.9	89.0	90.2	93.8	94.4	95.9	97.0	98.8	99.4	99.8	
GE 0	40.8	44.6	62.9	77.0	80.8	86.1	89.2	90.4	94.0	94.6	96.1	97.2	99.0	99.6	100.0	

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH — PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
USAFETAC — FROM HOURLY OBSERVATIONS
AIR WEATHER SERVICE/MAC

STATION NUMBER: 10870 STATION NAME: GRAFENWOHR AAF GER — PERIOD OF RECORD: 78-67
MONTH: MAR HOURS(LST): 1200-1400

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	15.7	18.2	22.5	23.3	23.3	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	
GE 20000	18.8	21.5	26.9	28.1	28.1	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3	
GE 18000	20.6	23.4	29.1	30.4	30.4	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	
GE 16000	20.6	23.4	29.1	30.4	30.4	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	
GE 14000	20.9	23.7	29.4	30.6	30.6	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	
GE 12000	21.5	24.5	30.3	31.6	31.6	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	
GE 10000	24.0	27.0	33.3	34.7	34.7	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	
GE 9000	24.2	27.2	33.9	35.3	35.3	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	
GE 8000	26.2	29.4	36.3	38.0	38.0	38.2	38.3	38.3	38.3	38.4	38.5	38.5	38.6	38.6	38.6	
GE 7000	27.7	31.0	38.5	40.2	40.2	40.4	40.5	40.5	40.5	40.6	40.8	40.8	40.9	40.9	40.9	
GE 6000	27.8	31.1	38.7	40.4	40.4	40.6	40.8	40.8	40.8	40.9	41.0	41.0	41.1	41.1	41.1	
GE 5000	30.0	33.5	41.9	43.8	43.8	44.0	44.1	44.1	44.1	44.2	44.3	44.3	44.4	44.4	44.4	
GE 4500	30.6	34.2	43.0	44.9	44.9	45.2	45.3	45.3	45.3	45.4	45.5	45.5	45.6	45.6	45.6	
GE 4000	34.4	38.1	47.3	50.0	50.0	50.2	50.3	50.3	50.3	50.4	50.5	50.5	50.6	50.6	50.6	
GE 3500	37.2	41.0	50.9	53.7	53.7	53.9	54.3	54.3	54.4	54.5	54.6	54.6	54.7	54.7	54.7	
GE 3000	48.6	52.9	64.4	67.7	67.6	68.2	68.6	68.6	68.7	68.8	68.9	68.9	69.0	69.0	69.0	
GE 2500	51.4	55.9	68.1	71.5	71.6	71.9	72.4	72.4	72.5	72.6	72.7	72.7	72.8	72.8	72.8	
GE 2000	54.5	59.1	72.6	77.8	78.4	79.2	79.7	79.7	79.8	79.9	80.1	80.1	80.2	80.2	80.2	
GE 1800	55.4	60.1	73.9	79.1	79.7	80.6	81.1	81.1	81.2	81.3	81.5	81.5	81.6	81.6	81.6	
GE 1500	57.0	61.9	76.7	82.8	83.9	85.2	85.6	85.6	85.8	85.9	86.2	86.2	86.3	86.3	86.3	
GE 1200	58.0	63.1	78.9	85.7	86.9	88.5	88.9	89.0	89.2	89.4	89.7	89.7	89.8	89.8	89.8	
GE 1000	58.5	63.7	80.2	87.3	88.6	90.5	91.3	91.4	91.6	91.7	92.0	92.2	92.3	92.3	92.3	
GE 900	58.7	64.0	81.0	88.2	89.8	91.8	92.6	92.7	92.9	93.0	93.3	93.4	93.5	93.5	93.5	
GE 800	59.1	64.5	81.6	89.0	90.8	92.9	93.7	93.8	94.1	94.3	94.6	94.7	94.8	94.8	94.8	
GE 700	59.1	64.5	81.8	89.2	91.2	93.8	94.6	94.7	95.1	95.3	95.7	95.8	95.9	95.9	95.9	
GE 600	59.1	64.5	81.8	89.5	91.8	94.4	95.5	95.6	96.2	96.8	97.2	97.3	97.6	97.6	97.6	
GE 500	59.1	64.5	81.8	89.6	91.9	94.5	96.0	96.3	97.1	97.6	98.2	98.4	99.0	99.0	99.0	
GE 400	59.1	64.5	81.8	89.6	91.9	94.6	96.1	96.5	97.2	98.0	98.5	98.8	99.5	99.5	99.5	
GE 300	59.1	64.5	81.8	89.6	91.9	94.6	96.1	96.6	97.4	98.2	98.7	99.0	99.9	99.9	99.9	
GE 200	59.1	64.5	81.8	89.6	91.9	94.6	96.1	96.6	97.4	98.2	98.7	99.0	100.0	100.0	100.0	
GE 100	59.1	64.5	81.8	89.6	91.9	94.6	96.1	96.6	97.4	98.2	98.7	99.0	100.0	100.0	100.0	
GE 0	59.1	64.5	81.8	89.6	91.9	94.6	96.1	96.6	97.4	98.2	98.7	99.0	100.0	100.0	100.0	

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH — PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
USAFETAC — FROM HOURLY OBSERVATIONS
AIR WEATHER SERVICE/MAC

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER — PERIOD OF RECORD: 78-87
MONTH: MAR HOURS(LST): 1500-1700

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	23.2	24.1	26.1	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5
GE 20000	28.3	29.5	32.6	33.0	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3
GE 18000	29.9	31.2	34.7	35.2	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5
GE 16000	30.0	31.3	34.8	35.3	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6
GE 14000	30.2	31.5	35.1	35.5	35.6	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8
GE 12000	31.3	32.6	36.2	36.7	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0
GE 10000	34.1	35.7	39.6	40.0	40.3	40.3	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4
GE 9000	35.1	36.7	40.8	41.2	41.5	41.5	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6
GE 8000	38.1	39.7	44.4	45.2	45.5	45.5	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8
GE 7000	39.8	41.5	46.6	47.5	47.8	47.8	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2
GE 6000	40.5	42.3	47.3	48.3	48.6	48.6	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
GE 5000	42.8	44.6	50.3	51.5	51.8	51.9	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3
GE 4500	43.9	45.8	51.5	52.8	53.1	53.3	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7
GE 4000	47.6	50.4	57.3	59.2	59.6	59.8	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
GE 3500	51.5	54.5	61.8	64.1	64.6	64.8	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
GE 3000	60.3	63.7	71.6	74.1	74.6	75.1	75.7	75.7	75.7	75.7	75.8	75.9	75.8	75.8	75.8	75.8
GE 2500	63.2	66.7	75.7	78.2	78.9	79.4	80.0	80.0	80.1	80.1	80.2	80.2	80.2	80.2	80.2	80.2
GE 2000	63.6	67.4	78.3	81.2	81.9	82.4	83.0	83.0	83.2	83.3	83.4	83.4	83.4	83.4	83.4	83.4
GE 1800	64.9	69.0	80.5	83.7	84.6	85.2	85.8	85.8	86.0	86.2	86.3	86.3	86.3	86.3	86.3	86.3
GE 1500	66.5	70.9	83.1	87.0	88.1	88.7	89.7	89.7	89.9	90.1	90.2	90.3	90.3	90.3	90.3	90.3
GE 1200	67.2	71.6	84.3	88.5	89.6	90.9	91.9	91.9	92.3	92.5	92.6	92.7	92.7	92.7	92.7	92.7
GE 1000	67.5	72.3	85.1	89.6	90.6	92.3	93.4	93.4	93.8	94.1	94.2	94.3	94.3	94.3	94.3	94.3
GE 900	67.5	72.3	85.5	90.1	91.2	93.0	94.2	94.2	94.5	94.8	94.9	95.1	95.1	95.1	95.1	95.1
GE 800	67.5	72.3	85.9	91.0	92.3	94.2	95.4	95.5	95.8	96.2	96.3	96.5	96.5	96.5	96.5	96.5
GE 700	67.5	72.3	85.9	91.2	92.5	94.5	95.8	95.9	96.3	96.8	96.9	97.0	97.1	97.1	97.1	97.1
GE 600	67.5	72.3	85.9	91.3	92.8	94.8	96.8	97.0	97.5	98.1	98.2	98.3	98.4	98.4	98.4	98.4
GE 500	67.5	72.3	85.9	91.4	92.9	94.9	97.0	97.2	98.0	98.6	98.8	99.0	99.2	99.2	99.2	99.2
GE 400	67.5	72.3	85.9	91.4	92.9	95.1	97.1	97.3	98.2	98.9	99.1	99.4	99.7	99.7	99.8	99.8
GE 300	67.5	72.3	85.9	91.4	92.9	95.1	97.1	97.3	98.2	98.9	99.1	99.5	99.8	99.8	99.9	99.9
GE 200	67.5	72.3	85.9	91.4	92.9	95.1	97.1	97.3	98.2	98.9	99.1	99.5	99.8	99.8	99.9	99.9
GE 100	67.5	72.3	85.9	91.4	92.9	95.1	97.1	97.3	98.2	98.9	99.1	99.5	99.8	99.8	99.9	99.9
GE 0	67.5	72.3	85.9	91.4	92.9	95.1	97.1	97.3	98.2	98.9	99.1	99.6	99.9	99.9	100.0	

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH — PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
USAFETAC — FROM HOURLY OBSERVATIONS
AIR WEATHER SERVICE/MAC

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR — PERIOD OF RECORD: 78-87
MONTH: MAR — HOURS(LST): 1800-2000

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS														
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		25.9	27.8	32.8	33.1	33.5	33.8	34.2	34.4	34.5	34.5	34.5	34.5	34.5	34.5	34.5
GE 20000		30.9	32.9	38.9	39.7	40.2	40.5	41.0	41.2	41.3	41.3	41.3	41.3	41.3	41.3	41.3
GE 18000		32.3	34.5	41.1	41.8	42.4	42.7	43.1	43.3	43.4	43.4	43.4	43.4	43.4	43.4	43.4
GE 16000		32.6	34.8	41.4	42.2	42.7	43.0	43.4	43.7	43.8	43.8	43.8	43.8	43.8	43.8	43.8
GE 14000		33.0	35.3	41.8	42.6	43.1	43.4	43.9	44.1	44.2	44.2	44.2	44.2	44.2	44.2	44.2
GE 12000		33.7	35.9	42.5	43.2	43.8	44.1	44.5	44.7	44.8	44.8	44.8	44.8	44.8	44.8	44.8
GE 10000		35.9	38.3	45.4	46.1	46.7	47.0	47.4	47.6	47.7	47.7	47.7	47.7	47.7	47.7	47.7
GE 9000		36.7	39.0	46.7	47.4	48.0	48.4	48.8	49.0	49.1	49.1	49.1	49.1	49.1	49.1	49.1
GE 8000		39.6	42.3	50.2	51.2	51.7	52.2	52.7	52.9	53.0	53.0	53.0	53.0	53.0	53.0	53.0
GE 7000		42.0	45.3	53.7	54.7	55.3	56.0	56.8	57.0	57.1	57.1	57.1	57.1	57.1	57.1	57.1
GE 6000		42.6	45.9	54.3	55.4	55.9	56.8	57.5	57.7	57.8	57.8	57.8	57.8	57.8	57.8	57.8
GE 5000		44.3	47.6	56.6	57.7	58.3	59.2	60.2	60.4	60.5	60.5	60.5	60.5	60.5	60.5	60.5
GE 4500		46.2	49.7	59.9	61.2	61.7	63.1	64.1	64.3	64.4	64.4	64.4	64.4	64.4	64.4	64.4
GE 4000		49.1	53.1	64.2	66.0	66.9	68.5	69.5	69.7	69.8	69.8	69.8	69.8	69.8	69.8	69.8
GE 3500		51.4	55.4	66.7	68.8	70.0	71.6	72.8	73.1	73.2	73.2	73.2	73.2	73.2	73.2	73.2
GE 3000		54.5	58.9	71.4	74.0	75.4	77.3	78.6	78.9	79.1	79.1	79.1	79.1	79.1	79.1	79.1
GE 2500		55.5	59.9	72.8	75.8	77.3	79.2	80.6	81.1	81.3	81.3	81.3	81.3	81.3	81.3	81.3
GE 2000		56.3	60.9	75.6	78.8	80.4	82.5	84.1	84.5	84.7	84.7	84.7	84.7	84.7	84.7	84.7
GE 1800		56.8	61.3	76.5	79.7	81.7	83.6	85.5	85.9	86.3	86.5	86.5	86.5	86.5	86.5	86.5
GE 1500		57.6	62.3	77.7	81.9	84.6	86.9	88.7	89.1	89.7	89.8	89.8	89.9	89.9	89.9	90.0
GE 1200		57.8	62.7	78.8	83.5	86.3	88.7	90.8	91.3	92.0	92.3	92.4	92.7	92.7	92.7	92.8
GE 1000		58.2	63.0	79.6	84.5	87.3	90.1	92.2	92.9	93.8	94.0	94.1	94.4	94.5	94.5	94.6
GE 900		58.2	63.0	79.8	84.7	87.6	90.4	92.5	93.2	94.1	94.3	94.4	94.7	94.8	94.8	94.9
GE 800		58.4	63.2	80.1	85.3	88.3	91.3	93.5	94.3	95.3	95.5	95.6	95.9	96.0	96.0	96.1
GE 700		58.4	63.2	80.1	85.4	88.4	91.4	93.8	94.5	95.7	95.9	96.0	96.3	96.5	96.5	96.6
GE 600		58.4	63.2	80.1	85.4	88.5	91.6	94.1	95.1	96.2	96.5	96.6	96.9	97.0	97.0	97.1
GE 500		58.4	63.2	80.1	85.4	88.5	92.0	94.6	95.8	97.2	97.5	97.6	98.2	98.3	98.3	98.4
GE 400		58.4	63.2	80.1	85.4	88.5	92.0	94.8	95.8	97.8	98.3	98.4	98.9	99.2	99.2	99.4
GE 300		58.4	63.2	80.1	85.4	88.5	92.0	94.8	95.8	97.8	98.3	98.4	98.9	99.2	99.2	99.6
GE 200		58.4	63.2	80.1	85.4	88.5	92.0	94.8	95.8	97.8	98.3	98.4	98.9	99.4	99.4	99.7
GE 100		58.4	63.2	80.1	85.4	88.5	92.0	94.8	95.8	97.8	98.3	98.4	98.9	99.4	99.5	99.8
GE 0		58.4	63.2	80.1	85.4	88.5	92.0	94.8	95.8	97.8	98.3	98.4	98.9	99.4	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER PERIOD OF RECORD: 78-87
MONTH: MAR HOURS(LST): 2100-2300

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		23.9	27.1	34.1	36.3	37.4	39.5	40.1	40.2	41.1	41.1	41.2	41.3	41.7	41.7	41.7
GE 20000		26.1	29.6	37.7	40.2	41.3	43.8	44.4	44.5	45.4	45.4	45.5	45.6	46.0	46.0	46.0
GE 18000		26.5	29.9	38.5	41.0	42.0	44.5	45.3	45.4	46.2	46.2	46.3	46.5	46.9	46.9	46.9
GE 16000		26.6	30.0	38.6	41.1	42.2	44.6	45.4	45.5	46.3	46.3	46.5	46.6	47.0	47.0	47.0
GE 14000		26.9	30.3	38.9	41.4	42.5	44.9	45.8	46.0	46.9	46.9	47.0	47.1	47.5	47.5	47.5
GE 12000		27.0	30.4	39.4	41.8	42.9	45.4	46.2	46.5	47.3	47.3	47.4	47.5	48.0	48.0	48.0
GE 10000		28.3	31.7	41.4	43.9	44.9	47.4	48.4	48.6	49.5	49.5	49.6	49.7	50.1	50.1	50.1
GE 9000		28.6	32.0	41.7	44.2	45.3	48.0	48.9	49.1	50.0	50.0	50.1	50.2	50.6	50.6	50.6
GE 8000		31.1	34.7	44.9	47.5	48.6	51.4	52.4	52.8	53.7	53.8	53.9	54.1	54.5	54.5	54.5
GE 7000		32.6	36.3	46.9	49.7	51.2	54.3	55.4	55.8	56.7	56.9	57.0	57.2	57.6	57.6	57.6
GE 6000		33.0	36.8	47.4	50.2	51.7	54.8	55.9	56.5	57.3	57.5	57.6	57.8	58.3	58.3	58.3
GE 5000		35.1	39.1	50.2	53.4	55.1	58.6	59.7	60.2	61.2	61.4	61.5	61.7	62.2	62.2	62.2
GE 4500		36.9	41.0	52.6	55.9	57.5	61.4	62.5	63.0	64.1	64.3	64.4	64.6	65.1	65.1	65.1
GE 4000		39.2	44.0	56.1	59.5	61.3	65.9	67.1	67.6	68.7	68.9	69.0	69.2	69.7	69.7	69.7
GE 3500		41.6	46.6	59.2	62.9	64.7	69.6	70.9	71.4	72.6	72.8	72.9	73.1	73.5	73.5	73.5
GE 3000		44.2	49.4	63.2	67.8	69.8	74.8	76.1	76.7	77.8	78.1	78.2	78.4	78.8	78.8	78.8
GE 2500		45.1	50.3	64.5	69.6	71.5	76.6	78.0	78.5	79.8	80.0	80.1	80.3	80.8	80.8	80.8
GE 2000		45.8	51.2	66.9	72.7	74.7	79.9	81.6	82.2	83.7	83.9	84.0	84.2	84.6	84.6	84.6
GE 1800		45.8	51.2	67.1	73.0	75.3	80.8	82.6	83.1	84.6	84.8	84.9	85.2	85.6	85.6	85.6
GE 1500		46.5	51.9	68.4	75.3	77.5	83.7	85.5	86.0	87.5	87.7	87.8	88.1	88.5	88.5	88.5
GE 1200		46.8	52.3	69.1	76.2	78.8	85.2	87.1	87.6	89.2	89.6	89.7	89.9	90.3	90.3	90.3
GE 1000		46.9	52.8	69.9	77.2	79.8	86.2	88.4	89.1	91.1	91.4	91.6	91.8	92.3	92.3	92.3
GE 900		46.9	52.8	70.0	77.5	80.1	86.6	88.7	89.5	91.4	91.7	92.0	92.3	92.7	92.7	92.7
GE 800		47.0	52.9	70.3	78.1	80.6	87.3	89.6	90.5	92.5	92.9	93.3	93.5	94.0	94.0	94.0
GE 700		47.0	52.9	70.5	78.4	81.0	87.6	90.2	91.0	93.0	93.4	93.9	94.1	94.6	94.6	94.6
GE 600		47.1	53.0	70.8	78.6	81.4	88.1	90.9	91.6	93.7	94.1	94.5	94.7	95.3	95.3	95.3
GE 500		47.1	53.0	70.8	78.7	81.5	88.4	91.5	92.5	95.1	95.7	96.1	96.3	96.9	96.9	96.9
GE 400		47.1	53.0	70.8	78.7	81.5	88.5	91.6	92.6	95.6	96.2	96.7	96.9	97.5	97.6	97.6
GE 300		47.1	53.0	70.8	78.7	81.5	88.5	91.7	92.7	96.0	96.8	97.2	97.4	98.2	98.3	98.3
GE 200		47.1	53.0	70.8	78.7	81.5	88.5	91.7	92.7	96.0	96.8	97.2	97.5	98.7	98.9	99.6
GE 100		47.1	53.0	70.8	78.7	81.5	88.5	91.7	92.7	96.0	96.8	97.2	97.7	98.9	99.2	99.9
GE 0		47.1	53.0	70.8	78.7	81.5	88.5	91.7	92.7	96.0	96.8	97.2	97.7	98.9	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: MAR HOURS(LST): ALL

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 16	GE 9	GE 8	GE 6	GE 4	GE 4	GE 3	GE 2	GE 2	GE 1	GE 1	GE 1	GE 8	GE 5	GE 4	GE 0
NO CEIL		17.1	19.1	24.6	27.1	27.9	29.3	30.0	30.0	30.4	30.5	30.6	30.7	30.8	30.9	31.0
GE 20000		20.3	22.7	29.0	32.0	32.9	34.4	35.1	35.2	35.6	35.7	35.7	35.9	36.0	36.1	36.2
GE 18000		21.0	23.5	30.2	33.1	34.1	35.6	36.4	36.5	36.9	37.0	37.0	37.1	37.3	37.3	37.5
GE 16000		21.1	23.6	30.3	33.3	34.2	35.7	36.5	36.6	37.0	37.1	37.1	37.2	37.4	37.5	37.6
GE 14000		21.3	23.8	30.5	33.5	34.4	36.0	36.8	36.9	37.3	37.4	37.4	37.5	37.7	37.7	37.9
GE 12000		21.9	24.4	31.2	34.2	35.2	36.8	37.5	37.7	38.1	38.2	38.2	38.4	38.5	38.6	38.7
GE 10000		23.4	26.0	33.3	36.4	37.3	38.9	39.7	39.9	40.3	40.5	40.5	40.7	40.8	40.9	41.0
GE 9000		23.6	26.4	34.0	37.1	38.1	39.7	40.5	40.7	41.1	41.3	41.3	41.4	41.6	41.7	41.8
GE 8000		25.9	28.6	36.7	40.0	41.0	42.8	43.7	43.9	44.4	44.6	44.6	44.8	45.0	45.0	45.2
GE 7000		27.2	30.2	38.6	42.2	43.4	45.3	46.3	46.5	47.0	47.2	47.3	47.4	47.6	47.7	47.9
GE 6000		27.6	30.6	39.1	42.7	43.9	45.8	46.8	47.1	47.7	47.9	47.9	48.1	48.3	48.4	48.5
GE 5000		29.1	32.3	41.3	45.2	46.4	48.4	49.5	49.8	50.4	50.6	50.7	50.9	51.1	51.2	51.3
GE 4500		30.2	33.5	43.1	47.1	48.4	50.7	51.8	52.2	52.8	53.0	53.1	53.4	53.6	53.6	53.8
GE 4000		32.6	36.2	46.5	51.1	52.5	55.1	56.4	56.8	57.5	57.8	57.9	58.1	58.4	58.5	58.7
GE 3500		34.6	38.5	49.3	54.1	55.7	58.3	59.7	60.1	60.9	61.1	61.3	61.5	61.8	61.9	62.1
GE 3000		39.5	43.7	55.8	61.3	63.0	65.9	67.4	67.8	68.7	68.9	69.1	69.4	69.7	69.8	69.9
GE 2500		41.3	45.5	58.3	64.1	65.9	68.9	70.6	71.0	72.0	72.2	72.4	72.6	73.0	73.1	73.3
GE 2000		43.1	47.5	61.9	68.5	70.6	74.0	75.7	76.3	77.4	77.7	77.9	78.2	78.6	78.7	78.9
GE 1800		43.6	48.2	62.8	69.5	71.8	75.2	77.0	77.6	78.6	79.1	79.3	79.7	80.1	80.2	80.4
GE 1500		44.8	49.5	64.8	72.4	75.0	78.8	80.6	81.3	82.7	83.0	83.4	83.8	84.2	84.3	84.5
GE 1200		45.6	50.4	66.3	74.6	77.6	81.6	83.8	84.5	86.1	86.4	86.6	87.2	87.7	87.8	88.0
GE 1000		46.0	51.0	67.5	75.9	79.0	83.3	85.8	86.6	88.5	88.8	89.3	89.9	90.3	90.4	90.6
GE 900		46.1	51.1	67.8	76.5	79.6	84.0	86.5	87.4	89.3	89.6	90.1	90.6	91.1	91.2	91.4
GE 800		46.2	51.3	68.1	77.1	80.4	84.9	87.6	88.4	90.4	90.8	91.3	91.8	92.3	92.4	92.6
GE 700		46.3	51.4	68.3	77.5	80.8	85.4	88.2	89.0	91.1	91.5	92.0	92.6	93.2	93.3	93.5
GE 600		46.3	51.4	68.5	77.7	81.3	86.0	89.1	90.0	92.2	92.7	93.2	93.8	94.4	94.6	94.7
GE 500		46.3	51.5	68.6	78.0	81.7	86.5	89.9	90.9	93.3	93.9	94.5	95.2	96.0	96.2	96.4
GE 400		46.4	51.6	68.8	78.2	81.8	86.7	90.2	91.3	94.1	94.7	95.4	96.2	97.2	97.3	97.5
GE 300		46.4	51.6	68.8	78.2	81.8	86.8	90.3	91.4	94.3	95.0	95.8	96.7	97.8	98.0	98.3
GE 200		46.4	51.6	68.8	78.2	81.8	86.8	90.3	91.4	94.5	95.2	96.0	97.0	98.4	98.8	99.3
GE 100		46.4	51.6	68.8	78.2	81.8	86.8	90.4	91.5	94.5	95.2	96.0	97.0	98.5	99.0	99.8
GE 0		46.4	51.6	68.8	78.2	81.9	86.8	90.4	91.5	94.5	95.3	96.0	97.1	98.6	99.1	100.0

TOTAL NUMBER OF OBSERVATIONS: 7439

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10687O STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: APR HOURS(LST): 0000-0200

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		25.9	31.6	39.5	42.2	42.8	43.8	45.4	45.5	45.6	45.6	45.6	45.8	46.3	46.4	47.1
GE 20000		27.1	33.3	42.0	45.3	46.0	47.0	48.6	48.7	48.9	48.9	48.9	49.0	49.6	49.7	50.5
GE 18000		27.2	33.4	42.1	45.4	46.1	47.3	48.9	49.0	49.3	49.3	49.3	49.4	49.9	50.1	50.8
GE 16000		27.2	33.4	42.1	45.4	46.1	47.3	48.9	49.0	49.3	49.3	49.3	49.4	49.9	50.1	50.8
GE 14000		27.2	33.4	42.1	45.4	46.2	47.6	49.2	49.3	49.5	49.5	49.5	49.6	50.2	50.3	51.1
GE 12000		28.2	34.4	43.3	46.5	47.3	48.7	50.3	50.4	50.6	50.6	50.6	50.8	51.4	51.5	52.3
GE 10000		30.9	37.3	46.4	49.8	50.6	52.1	53.7	53.8	54.0	54.0	54.0	54.2	54.9	55.0	55.8
GE 9000		31.5	37.8	47.1	50.7	51.5	53.1	54.7	54.8	55.0	55.0	55.0	55.3	55.9	56.1	56.9
GE 8000		34.8	41.6	51.2	54.9	55.7	57.6	59.2	59.3	59.6	59.6	59.6	59.8	60.5	60.6	61.4
GE 7000		35.3	42.4	52.2	56.6	57.4	59.6	61.4	61.5	61.7	61.7	61.7	61.9	62.6	62.7	63.5
GE 6000		35.3	42.5	52.7	57.1	57.9	60.0	61.8	61.9	62.2	62.2	62.2	62.4	63.1	63.2	64.0
GE 5000		36.3	45.6	56.3	60.9	61.9	64.3	66.5	66.6	66.8	66.8	66.8	67.0	67.7	68.0	66.7
GE 4500		39.2	46.7	57.8	63.2	64.2	67.0	69.3	69.4	69.6	69.6	69.6	69.9	70.6	70.8	71.6
GE 4000		42.5	50.2	62.5	68.3	69.3	72.1	75.0	75.1	75.3	75.3	75.3	75.5	76.2	76.4	77.2
GE 3500		43.8	51.6	64.9	70.9	72.0	74.9	77.7	77.8	78.0	78.0	78.0	78.3	78.9	79.2	80.0
GE 3000		45.3	53.5	68.1	74.6	75.8	78.7	81.7	81.8	82.2	82.2	82.2	82.4	83.1	83.4	84.1
GE 2500		46.7	54.8	69.4	76.0	77.3	80.3	83.4	83.5	83.9	83.9	83.9	84.1	84.8	85.1	85.8
GE 2200		47.1	55.5	71.5	78.4	80.0	83.2	86.5	87.0	87.5	87.5	87.5	87.8	88.4	88.7	89.5
GE 1800		47.2	55.6	71.6	78.5	80.1	83.4	86.6	87.1	87.7	87.7	87.7	87.9	88.6	88.8	89.6
GE 1500		48.5	56.9	73.6	81.2	82.8	86.2	89.7	90.4	90.9	90.9	90.9	91.2	91.8	92.1	92.9
GE 1200		48.7	57.1	74.2	81.8	83.4	86.9	90.6	91.5	92.1	92.1	92.2	92.4	93.1	93.3	94.1
GE 1000		49.6	57.6	75.2	82.6	84.6	88.1	91.8	92.8	93.4	93.4	93.7	93.9	94.6	94.8	95.9
GE 900		49.2	57.8	75.4	83.0	84.8	88.3	92.1	93.0	93.7	93.7	93.9	94.1	94.8	95.0	96.1
GE 800		49.2	57.8	75.5	83.1	84.9	88.8	92.9	93.8	94.5	94.5	94.7	94.9	95.6	95.8	96.9
GE 700		49.2	57.8	75.8	83.4	85.3	89.2	93.4	94.8	95.5	95.5	95.7	95.9	96.6	96.8	98.0
GE 600		49.2	57.8	75.8	83.4	85.3	89.6	94.3	95.2	95.9	95.9	96.5	96.7	97.4	97.6	98.8
GE 500		49.2	57.8	75.8	83.4	85.3	89.6	94.5	95.4	96.1	96.1	96.8	97.2	97.8	98.1	99.2
GE 400		49.2	57.8	75.8	83.4	85.3	89.6	94.5	95.4	96.1	96.1	96.8	97.2	97.8	98.1	99.2
GE 300		49.2	57.8	75.8	83.4	85.3	89.6	94.5	95.4	96.1	96.1	96.8	97.2	97.8	98.1	99.2
GE 200		49.2	57.8	75.8	83.4	85.3	89.6	94.5	95.4	96.1	96.1	96.8	97.2	97.8	98.1	99.2
GE 100		49.2	57.8	75.8	83.4	85.3	89.6	94.5	95.4	96.1	96.1	96.8	97.2	98.0	98.2	99.3
GE 0		49.2	57.9	75.9	83.5	85.4	89.7	94.6	95.5	96.3	96.3	96.9	97.3	98.1	98.3	100.0

TOTAL NUMBER OF OBSERVATIONS: 863

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: APR HOURS(LST): 0300-0500

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		13.6	18.3	27.9	32.0	32.7	33.9	36.7	36.9	38.2	38.2	38.4	38.6	39.1	39.5	40.9
GE 20000		14.8	19.7	29.7	34.1	35.1	36.6	39.5	39.8	41.1	41.1	41.4	41.7	42.1	42.6	44.0
GE 18000		14.8	19.7	29.7	34.1	35.1	36.6	39.5	39.8	41.1	41.1	41.4	41.7	42.1	42.6	44.0
GE 16000		14.8	19.7	29.7	34.1	35.1	36.6	39.5	39.8	41.1	41.1	41.4	41.7	42.1	42.6	44.0
GE 14000		14.8	19.7	29.7	34.1	35.1	36.6	39.5	39.8	41.1	41.1	41.4	41.7	42.1	42.6	44.0
GE 12000		15.6	20.5	30.6	35.0	36.0	37.5	40.5	40.7	42.0	42.0	42.3	42.6	43.1	43.5	44.9
GE 10000		17.1	21.9	32.5	37.3	38.4	40.1	43.2	43.4	44.9	44.9	45.1	45.4	46.0	46.6	48.1
GE 9000		17.3	22.3	33.2	38.0	39.1	40.9	44.0	44.2	45.9	45.9	46.1	46.4	47.0	47.6	49.2
GE 8000		19.0	24.5	36.2	41.5	42.6	44.7	47.9	48.2	49.9	49.9	50.2	50.5	51.1	51.6	53.2
GE 7000		19.5	25.3	37.6	43.2	44.9	47.0	50.6	51.0	52.7	52.7	52.9	53.2	53.8	54.4	55.9
GE 6000		19.8	25.5	38.1	43.7	45.5	47.7	51.3	51.6	53.3	53.3	53.6	53.9	54.5	55.0	56.6
GE 5000		23.2	29.6	42.6	48.4	50.4	52.9	57.1	57.6	59.4	59.4	59.7	60.0	60.6	61.1	62.9
GE 4500		24.1	30.8	44.0	51.1	53.1	55.9	60.2	60.8	62.8	62.8	63.1	63.4	64.0	64.5	66.3
GE 4000		25.6	32.5	47.3	54.2	56.5	59.4	64.4	65.0	67.1	67.1	67.3	67.7	68.2	68.8	70.6
GE 3500		27.1	34.1	49.8	57.2	59.4	62.7	67.7	68.2	70.4	70.4	70.6	71.0	71.5	72.1	73.9
GE 3000		29.4	36.6	53.2	60.7	63.2	66.6	71.9	72.4	74.6	74.6	74.8	75.1	75.8	76.4	78.2
GE 2500		29.7	37.1	54.4	62.3	64.7	68.2	73.7	74.2	76.4	76.4	76.6	76.9	77.6	78.2	80.0
GE 2000		30.5	38.2	56.0	64.4	66.9	70.6	76.3	76.8	79.1	79.2	79.4	79.9	80.6	81.1	82.9
GE 1800		30.7	38.5	56.8	65.2	67.8	71.5	77.2	77.7	80.0	80.1	80.3	80.8	81.5	82.0	83.8
GE 1500		31.4	39.2	58.0	67.9	71.2	75.5	81.6	82.1	84.4	84.5	84.7	85.2	85.9	86.4	88.2
GE 1200		32.1	39.9	59.4	69.6	73.1	77.6	83.8	84.4	86.8	87.0	87.2	87.7	88.4	88.9	90.7
GE 1000		32.7	40.6	60.8	71.1	74.9	79.4	86.1	86.7	89.2	89.4	89.6	90.1	90.7	91.3	93.2
GE 900		32.8	40.7	61.0	71.3	75.1	79.7	86.3	86.9	89.4	89.6	89.8	90.3	91.0	91.5	93.4
GE 800		32.8	40.7	61.5	71.8	75.6	80.5	87.1	87.7	90.2	90.4	90.6	91.1	91.8	92.3	94.2
GE 700		32.9	40.8	61.9	72.5	76.4	81.4	88.5	89.2	91.8	92.0	92.2	92.7	93.3	93.9	95.8
GE 600		32.9	40.8	61.9	72.5	76.4	81.4	88.5	89.3	92.0	92.2	92.8	93.2	93.9	94.5	96.4
GE 500		32.9	40.8	62.0	72.7	76.5	81.5	88.7	89.5	92.7	93.0	93.6	94.1	94.8	95.4	97.3
GE 400		32.9	40.8	62.0	72.7	76.6	81.6	88.8	89.6	92.8	93.1	93.7	94.2	94.9	95.6	97.5
GE 300		32.9	40.8	62.0	72.7	76.6	81.6	88.8	89.6	93.0	93.3	93.9	94.5	95.1	95.8	97.9
GE 200		32.9	40.8	62.0	72.7	76.6	81.8	89.0	89.8	93.2	93.6	94.1	94.7	95.6	96.4	98.6
GE 100		32.9	40.8	62.0	72.7	76.6	81.8	89.0	89.8	93.2	93.6	94.1	94.7	95.7	96.5	99.2
GE 0		33.0	40.9	62.1	72.8	76.7	81.9	89.2	89.9	93.3	93.7	94.2	94.9	95.8	96.6	100.0

TOTAL NUMBER OF OBSERVATIONS: 885

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: APR HOURS(LST): 0600-0800

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		10.6	11.8	19.5	26.2	28.2	30.2	31.9	32.4	33.1	33.1	33.5	33.6	33.9	34.3	35.6
GE 20000		12.2	13.5	22.3	30.1	32.2	34.4	36.3	36.8	37.7	37.8	38.1	38.2	38.7	39.0	40.4
GE 18000		12.7	14.2	23.2	31.0	33.1	35.3	37.2	37.7	38.7	38.8	39.1	39.2	39.7	40.0	41.4
GE 16000		12.7	14.2	23.2	31.0	33.1	35.3	37.2	37.7	38.7	38.8	39.1	39.2	39.7	40.0	41.4
GE 14000		12.7	14.2	23.2	31.0	33.1	35.3	37.2	37.7	38.7	38.8	39.1	39.2	39.7	40.0	41.4
GE 12000		13.1	14.5	24.0	32.1	34.3	36.4	38.3	38.8	39.8	39.9	40.2	40.4	40.8	41.1	42.5
GE 10000		14.0	15.4	25.7	34.2	36.5	39.1	41.0	41.5	42.8	43.0	43.4	43.5	44.0	44.3	45.7
GE 9000		14.1	15.6	25.9	34.4	36.8	39.5	41.4	41.8	43.2	43.3	43.7	43.9	44.3	44.6	46.0
GE 8000		16.8	18.5	30.4	39.8	42.4	45.2	47.1	47.6	49.0	49.2	49.9	50.1	50.5	50.8	52.2
GE 7000		17.8	19.7	33.0	42.5	45.1	47.9	49.9	50.4	52.0	52.1	53.0	53.1	53.8	54.1	55.6
GE 6000		18.0	20.0	33.4	42.8	45.4	48.3	50.3	50.7	52.3	52.4	53.3	53.4	54.1	54.5	55.9
GE 5000		19.3	21.2	35.4	45.1	48.0	50.8	53.2	53.7	55.2	55.4	56.4	56.5	57.2	57.5	59.0
GE 4500		20.1	22.1	36.9	47.5	50.6	53.4	55.9	56.4	58.3	58.4	59.4	59.5	60.3	60.7	62.1
GE 4000		21.9	24.2	39.6	50.5	53.9	56.8	59.5	60.1	62.0	62.2	63.4	63.5	64.3	64.6	66.1
GE 3500		23.9	26.5	42.4	53.4	56.8	60.1	62.9	63.5	65.4	65.6	67.1	67.2	68.0	68.3	69.9
GE 3000		26.7	29.3	45.7	57.6	61.0	64.3	67.3	67.9	70.7	71.0	72.6	72.7	73.5	73.8	75.4
GE 2500		27.7	30.6	47.2	59.3	62.8	66.2	69.4	70.0	72.9	73.3	74.9	75.0	75.8	76.1	77.7
GE 2000		29.1	32.6	49.3	61.7	65.3	68.9	72.6	73.2	76.3	76.7	78.2	78.4	79.1	79.5	81.1
GE 1800		29.3	32.2	50.1	62.5	66.1	69.7	73.4	74.0	77.1	77.5	79.0	79.1	79.9	80.3	81.8
GE 1500		30.4	33.6	52.4	66.0	69.7	73.7	77.9	78.5	81.7	82.1	83.7	83.8	84.6	84.9	86.5
GE 1200		31.1	34.6	53.3	67.1	70.8	75.0	79.4	80.0	83.5	83.9	85.5	85.6	86.4	86.7	88.3
GE 1000		31.2	34.7	53.9	68.0	71.7	76.0	80.7	81.4	85.1	85.6	87.3	87.4	88.2	88.5	90.1
GE 900		31.2	34.7	54.0	68.4	72.2	76.4	81.2	81.9	85.7	86.1	87.8	88.0	88.8	89.2	90.8
GE 800		31.2	34.7	54.6	69.1	72.8	77.3	82.1	82.9	86.7	87.1	89.1	89.3	90.1	90.4	92.0
GE 700		31.6	35.1	54.9	69.4	73.3	77.6	82.6	83.5	87.7	88.2	90.1	90.3	91.1	91.4	93.0
GE 600		31.6	35.1	55.2	69.8	73.7	78.6	83.5	84.3	88.5	89.0	91.2	91.4	92.2	92.6	94.1
GE 500		31.6	35.1	55.2	69.8	73.7	78.7	83.9	84.8	89.3	89.9	92.7	93.0	94.0	94.6	96.3
GE 400		31.6	35.1	55.2	69.8	73.7	78.7	83.9	84.8	89.6	90.2	93.0	93.3	94.4	94.9	96.6
GE 300		31.6	35.1	55.2	69.8	73.7	78.7	84.1	85.0	90.0	90.5	93.6	93.9	94.9	95.5	97.3
GE 200		31.6	35.1	55.2	69.8	73.7	78.8	84.2	85.1	90.1	90.6	93.7	94.1	95.5	96.3	98.9
GE 100		31.6	35.1	55.2	69.8	73.7	78.8	84.2	85.1	90.1	90.6	93.7	94.1	95.6	96.5	99.7
GE 0		31.6	35.1	55.2	69.8	73.7	78.8	84.2	85.1	90.1	90.6	93.7	94.1	95.6	96.5	100.0

TOTAL NUMBER OF OBSERVATIONS: 887

GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
USAFETAC FROM HOURLY OBSERVATIONS
AIR WEATHER SERVICE/MAC

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER PERIOD OF RECORD: 78-87
MONTH: APR HOURS(LST): 0900-1100

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	21.7	23.2	31.1	33.4	33.6	34.1	34.2	34.2	34.3	34.3	34.3	34.3	34.5	34.5	34.5	
GE 20000	24.4	26.0	34.3	37.3	37.4	38.0	38.2	38.2	38.4	38.4	38.5	38.5	38.6	38.6	38.6	
GE 18000	25.7	27.4	35.9	39.1	39.2	39.8	40.0	40.0	40.2	40.2	40.3	40.3	40.4	40.4	40.4	
GE 16000	25.7	27.4	35.9	39.1	39.2	39.8	40.0	40.0	40.2	40.2	40.3	40.3	40.4	40.4	40.4	
GE 14000	25.8	27.5	36.0	39.2	39.3	40.0	40.1	40.1	40.3	40.3	40.4	40.4	40.5	40.5	40.5	
GE 12000	26.4	28.1	36.7	39.8	40.0	40.6	40.7	40.7	41.0	41.0	41.1	41.1	41.2	41.2	41.2	
GE 10000	28.2	30.0	39.3	42.6	42.8	43.5	43.7	43.7	43.9	43.9	44.0	44.0	44.1	44.1	44.1	
GE 9000	28.3	30.1	39.4	42.9	43.0	43.8	43.9	43.9	44.1	44.1	44.2	44.2	44.3	44.3	44.3	
GE 8000	30.5	32.9	42.6	46.5	46.7	47.5	47.7	47.7	47.9	47.9	48.0	48.0	48.1	48.1	48.1	
GE 7000	31.5	34.2	44.7	48.7	48.9	49.7	49.9	49.9	50.2	50.2	50.3	50.3	50.4	50.4	50.4	
GE 6000	31.5	34.2	44.7	48.7	48.9	49.7	49.9	49.9	50.2	50.2	50.3	50.3	50.4	50.4	50.4	
GE 5000	33.1	36.0	46.6	50.8	51.2	52.2	52.4	52.4	52.6	52.6	52.7	52.7	52.9	52.9	52.9	
GE 4500	34.3	37.4	48.0	52.5	52.9	53.9	54.1	54.1	54.4	54.4	54.5	54.5	54.7	54.7	54.7	
GE 4000	39.1	42.5	53.8	58.5	58.9	60.0	60.4	60.4	60.7	60.7	60.8	60.8	60.9	60.9	60.9	
GE 3500	40.9	44.9	56.3	61.3	61.7	63.0	63.4	63.4	63.7	63.7	63.9	63.9	64.0	64.0	64.0	
GE 3000	49.9	54.2	66.8	72.8	73.4	74.7	75.2	75.2	75.6	75.6	75.8	75.8	75.9	75.9	75.9	
GE 2500	52.5	57.2	70.9	77.6	78.2	79.7	80.1	80.1	80.6	80.6	80.7	80.7	80.8	80.8	80.8	
GE 2000	54.9	59.8	73.8	81.3	82.4	84.1	84.7	84.7	85.2	85.2	85.3	85.3	85.4	85.4	85.4	
GE 1800	55.0	59.9	74.3	81.8	82.9	84.6	85.3	85.3	85.7	85.7	85.9	85.9	86.0	86.0	86.0	
GE 1500	56.1	61.2	77.3	85.6	86.9	88.7	89.3	89.3	89.9	89.9	90.0	90.0	90.1	90.1	90.1	
GE 1200	56.9	62.3	79.5	88.0	89.2	91.0	91.9	91.9	92.5	92.5	92.6	92.6	92.7	92.7	92.7	
GE 1000	57.1	62.6	80.5	89.8	91.0	93.3	94.2	94.2	95.1	95.1	95.2	95.2	95.3	95.3	95.3	
GE 900	57.2	62.7	80.7	90.1	91.4	93.6	94.6	94.6	95.5	95.5	95.6	95.6	95.7	95.7	95.7	
GE 800	57.2	62.7	80.9	90.5	91.7	93.9	94.9	94.9	95.8	95.8	96.0	96.1	96.4	96.4	96.4	
GE 700	57.4	62.9	81.0	90.8	92.0	94.3	95.4	95.5	96.4	96.4	96.5	96.7	97.1	97.2	97.2	
GE 600	57.4	62.9	81.0	90.8	92.1	94.7	96.0	96.1	97.0	97.0	97.1	97.4	97.8	97.9	97.9	
GE 500	57.4	63.0	81.1	90.9	92.3	94.9	96.4	96.5	97.9	97.9	98.0	98.5	98.9	99.1	99.1	
GE 400	57.4	63.0	81.1	90.9	92.3	94.9	96.5	96.6	98.0	98.0	98.1	98.7	99.0	99.2	99.2	
GE 300	57.4	63.0	81.1	90.9	92.3	94.9	96.7	96.9	98.2	98.3	98.4	99.0	99.4	99.7	99.7	
GE 200	57.4	63.0	81.1	90.9	92.3	94.9	96.7	96.9	98.2	98.3	98.4	99.0	99.6	99.8	99.8	
GE 100	57.4	63.0	81.1	90.9	92.3	94.9	96.7	96.9	98.2	98.3	98.4	99.0	99.7	99.9	99.9	
GE 0	57.4	63.0	81.1	91.0	92.4	95.1	96.9	97.0	98.3	98.4	98.5	99.1	99.8	100.0	100.0	

TOTAL NUMBER OF OBSERVATIONS: 891

GLOBAL CLIMATOLOGY BRANCH — PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
USAFETAC — FROM HOURLY OBSERVATIONS
AIR WEATHER SERVICE/MAC

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER — PERIOD OF RECORD: 78-87
MONTH: APR HOURS(LST): 1200-1400

CEILING IN FEET		VISIBILITY IN HUNDREDS OF METERS														
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		26.2	27.6	29.4	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6
GE 20000		31.3	32.3	35.4	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8
GE 18000		32.1	33.1	36.1	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6
GE 16000		32.1	33.1	36.1	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6
GE 14000		32.3	33.3	36.4	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8
GE 12000		33.3	34.3	37.4	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8
GE 10000		35.1	36.3	39.8	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4
GE 9000		35.6	36.8	40.4	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0
GE 8000		37.8	39.4	43.3	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
GE 7000		39.3	40.9	45.2	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8
GE 6000		39.4	41.0	45.3	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9
GE 5000		41.3	42.9	47.5	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0
GE 4500		42.6	44.3	48.9	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5
GE 4000		49.6	51.2	56.8	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
GE 3500		53.9	55.9	62.3	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
GE 3000		68.4	70.8	79.0	80.4	80.5	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
GE 2500		72.6	75.3	84.3	86.0	86.1	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
GE 2000		75.4	78.3	88.3	90.1	90.3	90.5	90.5	90.5	90.6	90.6	90.6	90.6	90.6	90.6	90.6
GE 1800		75.4	78.3	88.8	90.6	90.8	90.9	90.9	90.9	91.0	91.0	91.0	91.0	91.0	91.0	91.0
GE 1500		76.9	80.1	91.5	93.5	93.7	93.8	93.8	93.8	93.9	93.9	93.9	93.9	93.9	93.9	93.9
GE 1200		77.6	81.0	92.9	94.9	95.3	95.6	95.6	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7
GE 1000		78.1	81.8	94.3	96.4	96.7	97.1	97.1	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2
GE 900		78.3	82.2	94.7	97.0	97.4	97.8	97.8	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9
GE 800		78.3	82.2	95.1	97.3	97.8	98.1	98.1	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2
GE 700		78.6	82.5	95.5	97.6	98.3	98.7	98.7	98.7	99.0	99.0	99.0	99.1	99.1	99.1	99.1
GE 600		78.6	82.5	95.6	97.9	98.4	98.9	99.0	99.0	99.3	99.3	99.4	99.8	99.8	99.8	99.8
GE 500		78.6	82.6	95.7	98.0	98.5	99.0	99.1	99.1	99.4	99.4	99.6	99.9	99.9	99.9	99.9
GE 400		78.6	82.6	95.7	98.0	98.5	99.0	99.1	99.1	99.4	99.4	99.6	99.9	100.0	100.0	100.0
GE 300		78.6	82.6	95.7	98.0	98.5	99.0	99.1	99.1	99.4	99.4	99.6	99.9	100.0	100.0	100.0
GE 200		78.6	82.6	95.7	98.0	98.5	99.0	99.1	99.1	99.4	99.4	99.6	99.9	100.0	100.0	100.0
GE 100		78.6	82.6	95.7	98.0	98.5	99.0	99.1	99.1	99.4	99.4	99.6	99.9	100.0	100.0	100.0
GE 0		78.6	82.6	95.7	98.0	98.5	99.0	99.1	99.1	99.4	99.4	99.6	99.9	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 891

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: APR HOURS(LST): 1500-1700

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GE 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	31.2	31.6	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	
GE 20000	37.5	38.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	
GE 18000	38.8	39.5	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	
GE 16000	38.9	39.6	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	
GE 14000	39.1	39.7	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	
GE 12000	39.6	40.3	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	
GE 10000	41.6	42.3	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	
GE 9000	42.4	43.1	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	
GE 8000	46.2	47.1	49.4	49.5	49.5	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	
GE 7000	48.1	49.1	52.3	52.4	52.4	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	
GE 6000	48.6	49.7	52.8	52.9	52.9	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	
GE 5000	51.0	52.0	55.3	55.5	55.5	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	
GE 4500	53.4	54.4	57.7	57.9	57.9	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	
GE 4000	59.8	61.3	65.0	65.5	65.6	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	
GE 3500	65.7	67.3	71.8	72.5	72.6	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	
GE 3000	76.2	78.4	84.5	85.4	85.6	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	
GE 2500	77.9	80.1	86.9	87.8	88.1	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	
GE 2000	80.2	83.0	90.7	92.3	92.7	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	
GE 1800	80.2	83.0	90.7	92.3	92.7	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	
GE 1500	82.1	84.8	92.6	94.4	94.7	94.9	95.0	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	
GE 1200	82.5	85.6	94.5	96.4	96.7	97.0	97.1	97.2	97.2	97.3	97.3	97.3	97.3	97.3	97.3	
GE 1000	83.1	86.2	95.6	97.5	97.9	98.3	98.4	98.6	98.6	98.8	98.9	98.9	98.9	98.9	98.9	
GE 900	83.1	86.5	95.8	97.7	98.1	98.5	98.6	98.9	98.9	99.0	99.1	99.1	99.1	99.1	99.1	
GE 800	83.1	86.5	95.9	97.9	98.2	98.6	98.9	99.1	99.1	99.2	99.3	99.4	99.4	99.4	99.4	
GE 700	83.1	86.5	95.9	97.9	98.2	98.6	98.9	99.1	99.3	99.4	99.5	99.7	99.7	99.7	99.7	
GE 600	83.1	86.5	95.9	97.9	98.2	99.0	99.2	99.4	99.7	99.8	99.9	100.0	100.0	100.0	100.0	
GE 500	83.1	86.5	95.9	97.9	98.2	99.0	99.2	99.4	99.7	99.8	99.9	100.0	100.0	100.0	100.0	
GE 400	83.1	86.5	95.9	97.9	98.2	99.0	99.2	99.4	99.7	99.8	99.9	100.0	100.0	100.0	100.0	
GE 300	83.1	86.5	95.9	97.9	98.2	99.0	99.2	99.4	99.7	99.8	99.9	100.0	100.0	100.0	100.0	
GE 200	83.1	86.5	95.9	97.9	98.2	99.0	99.2	99.4	99.7	99.8	99.9	100.0	100.0	100.0	100.0	
GE 100	83.1	86.5	95.9	97.9	98.2	99.0	99.2	99.4	99.7	99.8	99.9	100.0	100.0	100.0	100.0	
GE 0	83.1	86.5	95.9	97.9	98.2	99.0	99.2	99.4	99.7	99.8	99.9	100.0	100.0	100.0	100.0	

TOTAL NUMBER OF OBSERVATIONS: 866

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 76-87
MONTH: APR HOURS(LST): 1800-2000

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	75.6	37.4	39.8	40.3	40.3	40.5	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	
GE 20000	41.8	43.8	46.9	48.0	48.1	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
GE 18000	43.7	45.8	48.8	49.9	50.1	50.3	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	
GE 16000	43.7	45.8	48.8	49.9	50.1	50.3	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	
GE 14000	43.7	45.8	48.8	49.9	50.1	50.3	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	
GE 12000	43.8	45.9	48.9	50.1	50.2	50.4	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	
GE 10000	45.2	47.2	50.4	51.5	51.6	51.9	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	
GE 9000	45.6	47.9	51.3	52.5	52.7	52.9	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	
GE 8000	50.5	53.2	56.9	58.3	58.4	58.7	58.8	59.0	59.1	59.1	59.1	59.1	59.1	59.1	59.1	
GE 7000	52.1	54.6	58.7	60.6	60.7	61.3	61.4	61.6	61.9	61.9	61.9	61.9	61.9	61.9	61.9	
GE 6000	52.8	55.5	59.3	61.3	61.4	61.9	62.1	62.3	62.6	62.6	62.6	62.6	62.6	62.6	62.6	
GE 5000	55.6	58.7	62.6	64.7	64.8	65.3	65.5	65.7	66.0	66.0	66.0	66.0	66.0	66.0	66.0	
GE 4500	58.0	61.0	65.2	67.3	67.4	68.1	68.2	68.4	68.7	68.7	68.7	68.7	68.7	68.7	68.7	
GE 4000	63.3	66.7	71.8	74.0	74.2	75.0	75.1	75.3	75.7	75.7	75.7	75.7	75.7	75.7	75.7	
GE 3500	66.6	69.8	75.3	77.5	77.9	78.7	78.8	79.0	79.4	79.4	79.4	79.4	79.4	79.4	79.4	
GE 3000	71.0	74.9	81.4	84.0	84.5	85.5	85.6	85.8	86.6	86.6	86.6	86.6	86.6	86.6	86.6	
GE 2500	72.9	76.9	84.3	87.0	87.4	88.4	88.6	88.8	89.6	89.6	89.6	89.6	89.6	89.6	89.6	
GE 2000	73.6	78.0	86.3	89.6	90.5	91.5	91.6	91.8	92.6	92.6	92.6	92.6	92.6	92.6	92.6	
GE 1800	74.0	78.4	86.6	89.9	90.8	91.8	92.0	92.2	93.0	93.0	93.0	93.0	93.0	93.0	93.0	
GE 1500	74.6	79.2	87.9	91.3	92.2	93.2	93.5	93.8	94.6	94.6	94.6	94.6	94.6	94.6	94.6	
GE 1200	75.0	79.6	89.4	93.1	94.1	95.1	95.5	95.7	96.5	96.5	96.5	96.5	96.5	96.5	96.5	
GE 1000	75.7	80.3	90.6	95.1	96.1	97.2	97.6	97.8	98.6	98.6	98.6	98.6	98.6	98.6	98.6	
GE 900	75.7	80.3	90.7	95.2	96.3	97.3	97.7	98.0	98.8	98.8	98.8	98.8	98.8	98.8	98.8	
GE 800	75.7	80.3	90.9	95.5	96.5	97.6	98.1	98.3	99.1	99.1	99.1	99.1	99.1	99.1	99.1	
GE 700	75.7	80.3	90.9	95.5	96.5	97.6	98.2	98.4	99.2	99.2	99.2	99.2	99.4	99.4	99.4	
GE 600	75.7	80.3	90.9	95.5	96.5	97.7	98.3	98.5	99.5	99.5	99.5	99.5	99.8	99.8	99.8	
GE 500	75.7	80.3	90.9	95.5	96.5	97.7	98.3	98.5	99.5	99.5	99.5	99.5	99.8	99.8	99.8	
GE 400	75.7	80.3	90.9	95.5	96.5	97.7	98.5	98.8	99.8	99.8	99.8	99.8	100.0	100.0	100.0	
GE 300	75.7	80.3	90.9	95.5	96.5	97.7	98.5	98.8	99.8	99.8	99.8	99.8	100.0	100.0	100.0	
GE 200	75.7	80.3	90.9	95.5	96.5	97.7	98.5	98.8	99.8	99.8	99.8	99.8	100.0	100.0	100.0	
GE 100	75.7	80.3	90.9	95.5	96.5	97.7	98.5	98.8	99.8	99.8	99.8	99.8	100.0	100.0	100.0	
GE 0	75.7	80.3	90.9	95.5	96.5	97.7	98.5	98.8	99.8	99.8	99.8	99.8	100.0	100.0	100.0	

TOTAL NUMBER OF OBSERVATIONS: 887

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: APR HOURS(LST): 2100-2300

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		36.1	40.1	46.2	48.7	49.4	49.8	49.9	49.9	49.9	49.9	49.9	50.1	50.2	50.2	50.2
GE 20000		39.2	43.2	50.2	53.1	53.9	54.6	54.9	54.9	54.9	54.9	54.9	55.1	55.2	55.2	55.3
GE 18000		39.6	43.9	50.7	53.8	54.6	55.4	55.7	55.7	55.7	55.7	55.7	55.8	56.0	56.0	56.1
GE 16000		39.6	43.9	50.7	53.8	54.6	55.4	55.7	55.7	55.7	55.7	55.7	55.8	56.0	56.0	56.1
GE 14000		39.6	43.9	50.7	53.8	54.6	55.4	55.7	55.7	55.7	55.7	55.7	55.8	56.0	56.0	56.1
GE 12000		40.0	44.3	51.2	54.3	55.1	55.8	56.2	56.2	56.2	56.2	56.2	56.3	56.4	56.4	56.5
GE 10000		42.1	46.4	53.3	56.4	57.2	58.0	58.3	58.3	58.5	58.5	58.5	58.6	58.7	58.7	58.8
GE 9000		42.5	46.8	53.9	57.3	58.1	58.9	59.3	59.3	59.4	59.4	59.4	59.5	59.6	59.6	59.7
GE 8000		45.4	50.4	58.0	61.4	62.4	63.6	64.1	64.1	64.2	64.2	64.2	64.4	64.5	64.5	64.6
GE 7000		46.4	51.5	59.5	63.1	64.1	65.4	66.2	66.2	66.3	66.3	66.3	66.4	66.6	66.6	66.7
GE 6000		46.7	51.8	59.9	63.6	64.6	65.8	66.6	66.6	66.7	66.7	66.7	66.9	67.1	67.1	67.2
GE 5000		48.6	54.0	62.4	66.5	67.5	68.6	69.6	69.6	69.7	69.7	69.7	69.8	70.0	70.0	70.1
GE 4500		50.6	55.8	64.5	68.6	69.6	71.2	72.0	72.0	72.1	72.1	72.1	72.2	72.4	72.4	72.5
GE 4000		53.9	59.7	69.1	73.9	75.0	76.7	77.6	77.6	77.8	77.8	77.8	77.9	78.1	78.1	78.2
GE 3500		55.8	61.9	72.1	76.6	77.8	79.5	80.4	80.4	80.5	80.5	80.5	80.6	80.8	80.8	80.9
GE 3000		59.1	65.4	76.5	81.0	82.2	84.0	85.0	85.0	85.1	85.1	85.1	85.2	85.5	85.5	85.6
GE 2500		60.4	66.9	78.4	83.2	84.3	86.2	87.2	87.2	87.4	87.4	87.4	87.5	87.7	87.7	87.9
GE 2000		61.3	67.9	81.0	86.4	87.7	89.8	91.1	91.3	91.5	91.5	91.5	91.6	91.8	91.8	91.9
GE 1800		61.4	68.0	81.3	86.6	88.1	90.1	91.5	91.6	91.8	91.8	91.8	91.9	92.2	92.2	92.3
GE 1500		62.4	69.1	82.6	88.3	89.8	91.8	93.2	93.3	93.5	93.5	93.5	93.8	94.0	94.0	94.1
GE 1200		62.9	69.6	83.7	89.3	90.8	92.8	94.6	94.7	95.0	95.0	95.0	95.2	95.5	95.5	95.6
GE 1000		63.5	70.3	84.6	90.6	92.1	94.2	95.9	96.0	96.4	96.4	96.4	96.6	96.8	96.8	96.9
GE 900		63.5	70.3	84.9	90.7	92.2	94.3	96.0	96.1	96.5	96.5	96.5	96.8	97.0	97.0	97.2
GE 800		63.6	70.4	85.0	90.9	92.4	94.7	96.5	96.6	97.0	97.0	97.0	97.4	97.6	97.6	97.7
GE 700		63.6	70.4	85.1	91.1	92.7	95.2	97.3	97.5	98.0	98.0	98.0	98.3	98.5	98.5	98.6
GE 600		63.6	70.4	85.1	91.1	92.7	95.6	97.6	97.8	98.4	98.4	98.6	99.0	99.2	99.2	99.3
GE 500		63.6	70.4	85.1	91.1	92.7	95.6	97.6	98.1	98.6	98.6	98.9	99.2	99.4	99.4	99.5
GE 400		63.6	70.4	85.1	91.3	92.8	95.7	98.1	98.3	98.9	98.9	99.1	99.4	99.7	99.7	99.8
GE 300		63.6	70.4	85.1	91.3	92.8	95.7	98.1	98.3	98.9	98.9	99.1	99.4	99.7	99.8	99.9
GE 200		63.6	70.4	85.1	91.3	92.8	95.7	98.1	98.3	98.9	98.9	99.1	99.4	99.7	99.8	99.9
GE 100		63.6	70.4	85.1	91.3	92.8	95.7	98.1	98.3	98.9	98.9	99.1	99.4	99.7	99.9	100.0
GE 0		63.6	70.4	85.1	91.3	92.8	95.7	98.1	98.3	98.9	98.9	99.1	99.4	99.7	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS: 801

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: APR HOURS(LST): ALL

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		25.1	27.6	33.3	35.7	36.2	36.9	37.7	37.8	38.1	38.1	38.1	38.2	38.4	38.5	38.9
GE 20000		28.5	31.3	37.6	40.5	41.1	41.8	42.7	42.8	43.1	43.2	43.2	43.3	43.5	43.7	44.1
GE 18000		29.3	32.1	38.5	41.4	42.0	42.6	43.7	43.8	44.2	44.2	44.3	44.3	44.5	44.7	45.1
GE 16000		29.3	32.1	38.5	41.4	42.0	42.6	43.7	43.8	44.2	44.2	44.3	44.3	44.6	44.7	45.1
GE 14000		29.4	32.2	38.6	41.5	42.1	42.9	43.8	43.9	44.3	44.3	44.3	44.4	44.6	44.8	45.2
GE 12000		30.0	32.6	39.3	42.2	42.8	43.7	44.5	44.6	45.0	45.0	45.1	45.2	45.4	45.5	46.0
GE 10000		31.8	34.6	41.5	44.6	45.2	46.2	47.1	47.2	47.6	47.6	47.7	47.8	48.0	48.2	48.7
GE 9000		32.2	35.0	42.0	45.2	45.9	46.9	47.8	47.9	48.3	48.3	48.4	48.5	48.8	48.9	49.4
GE 8000		35.1	38.5	46.0	49.5	50.2	51.3	52.3	52.4	52.9	52.9	53.1	53.2	53.4	53.5	54.0
GE 7000		36.2	39.7	47.9	51.6	52.4	53.6	54.7	54.8	55.4	55.4	55.5	55.6	55.9	56.0	56.5
GE 6000		36.5	40.0	48.3	52.0	52.8	54.0	55.1	55.2	55.8	55.8	55.9	56.0	56.3	56.4	56.9
GE 5000		38.8	42.5	51.1	55.0	55.9	57.2	58.5	58.6	59.2	59.2	59.3	59.4	59.7	59.9	60.4
GE 4500		40.3	44.1	52.9	57.2	58.1	59.6	60.9	61.0	61.7	61.7	61.8	61.9	62.2	62.4	62.9
GE 4000		44.4	48.5	58.3	62.8	63.8	65.4	66.9	67.1	67.7	67.7	67.9	68.0	68.3	68.4	69.0
GE 3500		47.1	51.5	61.8	66.5	67.6	69.3	70.8	71.0	71.6	71.7	71.9	72.0	72.3	72.4	73.0
GE 3000		53.3	57.9	69.4	74.6	75.8	77.5	79.1	79.3	80.2	80.2	80.5	80.6	80.9	81.0	81.5
GE 2500		55.1	59.9	72.0	77.4	78.6	80.4	82.1	82.3	83.2	83.2	83.4	83.5	83.9	84.0	84.5
GE 2000		56.5	61.6	74.6	80.5	82.0	83.9	85.8	86.0	87.0	87.0	87.3	87.4	87.7	87.8	88.4
GE 1800		56.7	61.7	75.0	80.9	82.4	84.4	86.2	86.5	87.4	87.5	87.7	87.8	88.1	88.3	88.8
GE 1500		57.6	63.0	77.0	83.5	85.1	87.2	89.3	89.5	90.5	90.6	90.8	90.9	91.3	91.4	91.9
GE 1200		58.3	63.7	78.4	85.0	86.7	88.9	91.1	91.4	92.4	92.5	92.7	92.9	93.2	93.3	93.9
GE 1000		58.6	64.3	79.5	86.4	88.1	90.4	92.7	93.1	94.2	94.3	94.6	94.7	95.0	95.2	95.8
GE 900		58.9	64.4	79.7	86.7	88.4	90.7	93.0	93.4	94.5	94.6	94.9	95.1	95.4	95.5	96.1
GE 800		58.9	64.4	79.9	87.0	88.7	91.2	93.6	93.9	95.1	95.2	95.5	95.7	96.0	96.2	96.8
GE 700		59.0	64.5	80.1	87.3	89.1	91.6	94.2	94.6	95.9	96.0	96.3	96.5	96.9	97.0	97.6
GE 600		59.0	64.5	80.2	87.4	89.2	91.9	94.6	95.0	96.3	96.4	96.9	97.1	97.5	97.7	98.3
GE 500		59.0	64.5	80.2	87.4	89.2	92.0	94.7	95.2	96.7	96.8	97.4	97.7	98.1	98.3	98.9
GE 400		59.0	64.5	80.2	87.4	89.2	92.0	94.8	95.2	96.8	96.9	97.5	97.8	98.2	98.4	99.0
GE 300		59.0	64.5	80.2	87.4	89.2	92.0	94.9	95.3	96.9	97.0	97.6	98.0	98.4	98.6	99.2
GE 200		59.0	64.5	80.2	87.4	89.2	92.1	94.9	95.3	96.9	97.1	97.7	98.0	98.5	98.8	99.5
GE 100		59.0	64.5	80.2	87.4	89.2	92.1	94.9	95.3	96.9	97.1	97.7	98.0	98.6	98.9	99.8
GE 0		59.0	64.6	80.3	87.5	89.3	92.1	95.0	95.4	97.0	97.1	97.7	98.1	98.6	98.9	100.0

TOTAL NUMBER OF OBSERVATIONS: 7087

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: MAY HOURS(LST): 0000-0200

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	32.6	37.5	43.9	46.1	46.6	47.6	48.6	48.6	49.5	49.6	49.6	50.1	50.8	51.5	52.5
GE 20000	35.4	40.7	47.6	49.9	50.4	51.4	52.4	52.4	53.4	53.5	53.5	54.0	54.7	55.4	56.4
GE 18000	36.4	41.7	48.9	51.2	51.7	52.7	53.7	53.7	54.7	54.8	54.8	55.3	56.0	56.8	57.7
GE 16000	36.4	41.7	48.9	51.2	51.7	52.7	53.7	53.7	54.7	54.8	54.8	55.3	56.0	56.8	57.7
GE 14000	36.4	41.7	48.9	51.2	51.7	52.7	53.7	53.7	54.7	54.8	54.8	55.3	56.0	56.8	57.7
GE 12000	36.8	42.2	49.5	51.9	52.4	53.4	54.4	54.4	55.3	55.4	55.4	56.0	56.6	57.4	58.4
GE 10000	38.1	43.5	51.0	53.6	54.1	55.2	56.2	56.2	57.2	57.3	57.3	57.8	58.5	59.3	60.2
GE 9000	38.7	44.0	51.5	54.1	54.7	55.8	56.8	56.8	57.7	57.8	57.8	58.4	59.0	59.8	60.8
GE 8000	40.4	46.2	54.9	57.7	58.3	59.4	60.5	60.5	61.5	61.7	61.7	62.2	62.9	63.6	64.7
GE 7000	42.5	48.5	57.4	60.2	60.8	61.9	63.0	63.0	64.1	64.2	64.2	64.7	65.4	66.1	67.2
GE 6000	42.5	48.5	57.6	60.5	61.0	62.1	63.2	63.2	64.3	64.4	64.4	64.9	65.6	66.3	67.4
GE 5000	44.2	51.1	61.0	63.8	64.4	65.6	66.8	66.8	67.9	68.0	68.0	68.5	69.2	69.9	71.0
GE 4500	44.7	51.9	62.2	65.3	65.8	67.0	68.2	68.2	69.3	69.4	69.4	69.9	70.7	71.5	72.5
GE 4000	47.1	54.8	65.9	69.1	69.6	71.5	72.7	72.7	73.7	73.9	73.9	74.4	75.2	75.9	77.0
GE 3500	48.4	56.2	67.6	71.1	71.7	73.5	74.7	74.7	75.9	76.0	76.0	76.6	77.3	78.1	79.2
GE 3000	50.6	58.9	71.2	75.4	75.9	78.2	79.5	79.5	80.9	81.0	81.0	81.6	82.5	83.2	84.3
GE 2500	51.5	59.7	72.1	76.9	77.5	79.7	81.2	81.4	82.8	82.9	82.9	83.4	84.3	85.1	86.2
GE 2000	52.5	60.9	73.9	79.3	80.1	82.6	84.1	84.3	85.7	85.8	85.8	86.4	87.3	88.0	89.1
GE 1800	52.6	61.0	74.0	79.4	80.2	82.8	84.3	84.5	85.9	86.1	86.1	86.6	87.5	88.2	89.3
GE 1500	53.2	62.1	75.6	81.3	82.1	85.0	86.8	87.0	88.7	88.8	88.8	89.3	90.2	91.0	92.0
GE 1200	54.2	63.5	77.5	83.3	84.3	87.4	89.2	89.4	91.1	91.2	91.2	91.7	92.6	93.4	94.4
GE 1000	54.6	64.3	78.8	84.7	85.7	89.1	91.0	91.2	92.8	92.9	92.9	93.5	94.3	95.1	96.2
GE 900	54.6	64.3	78.8	84.7	85.7	89.1	91.0	91.2	92.8	92.9	92.9	93.5	94.3	95.1	96.2
GE 800	54.6	64.3	78.9	84.9	85.8	89.2	91.1	91.3	92.9	93.0	93.0	93.6	94.4	95.2	96.3
GE 700	54.7	64.4	79.3	85.3	86.3	89.7	91.9	92.2	93.8	93.9	93.9	94.4	95.3	96.1	97.2
GE 600	54.7	64.4	79.4	85.7	86.7	90.1	92.4	92.6	94.2	94.3	94.3	94.9	95.8	96.5	97.6
GE 500	54.7	64.6	80.3	86.7	87.9	91.3	93.7	93.9	95.6	95.9	95.9	96.4	97.3	98.0	99.1
GE 400	54.8	64.7	80.5	87.0	88.2	91.6	94.0	94.2	96.0	96.2	96.2	96.7	97.6	98.4	99.5
GE 300	54.8	64.7	80.5	87.1	88.3	91.7	94.2	94.4	96.2	96.4	96.4	96.9	97.8	98.6	99.9
GE 200	54.8	64.7	80.5	87.1	88.3	91.7	94.2	94.4	96.2	96.4	96.4	96.9	97.8	98.6	99.9
GE 100	54.8	64.7	80.5	87.1	88.3	91.7	94.2	94.4	96.2	96.4	96.4	96.9	97.8	98.6	100.0
	54.8	64.7	80.5	87.1	88.3	91.7	94.2	94.4	96.2	96.4	96.4	96.9	97.8	98.6	100.0

TOTAL NUMBER OF OBSERVATIONS: 918

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: MAY HOURS(LST): 0300-0500

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 96	GE 80	GE 64	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	14.8	18.5	24.4	28.4	29.7	31.9	35.0	35.4	37.0	37.0	37.6	38.1	38.8	39.9	41.7	
GE 20000	15.1	19.0	25.9	30.1	31.6	34.1	37.1	37.7	39.3	39.3	39.9	40.4	41.2	42.3	44.2	
GE 18000	15.7	19.8	27.0	31.2	32.7	35.2	38.2	38.8	40.4	40.4	41.0	41.5	42.3	43.4	45.3	
GE 16000	15.9	20.0	27.2	31.4	32.9	35.4	38.5	39.0	40.6	40.6	41.2	41.7	42.5	43.6	45.5	
GE 14000	15.9	20.0	27.2	31.4	32.9	35.4	38.5	39.0	40.6	40.6	41.2	41.7	42.5	43.6	45.6	
GE 12000	16.0	20.3	27.6	31.8	33.3	35.8	38.9	39.4	41.1	41.1	41.6	42.2	42.9	44.0	46.1	
GE 10000	17.8	22.3	30.2	34.6	36.2	38.9	42.0	42.6	44.4	44.4	45.0	45.6	46.4	47.5	49.7	
GE 9000	18.0	22.8	30.7	35.2	36.7	39.5	42.7	43.2	45.1	45.1	45.6	46.3	47.1	48.1	50.3	
GE 8000	19.6	24.9	33.6	38.9	40.6	44.2	47.8	48.5	50.8	50.8	51.3	52.0	53.2	54.4	56.6	
GE 7000	20.9	26.5	35.5	41.2	42.9	46.5	50.1	50.8	53.4	53.4	53.9	54.6	55.6	57.0	59.3	
GE 6000	21.1	26.7	35.7	41.4	43.4	46.9	50.5	51.2	53.8	53.8	54.4	55.0	56.2	57.4	59.7	
GE 5000	23.5	29.2	39.0	44.7	46.6	50.2	53.9	54.6	57.2	57.2	57.8	58.5	59.8	61.0	63.3	
GE 4500	24.1	30.5	41.3	47.5	49.6	53.4	57.2	57.8	60.6	60.6	61.2	61.9	63.2	64.4	66.7	
GE 4000	25.7	32.7	45.0	51.9	54.0	58.1	62.4	63.1	65.9	66.0	66.7	67.3	68.6	69.8	72.1	
GE 3500	26.1	33.3	45.9	52.8	55.0	59.0	63.5	64.2	67.0	67.1	67.8	68.4	69.7	70.9	73.2	
GE 3000	28.9	36.9	50.1	58.0	60.2	64.5	69.1	69.7	72.7	72.8	73.4	74.1	75.4	76.6	79.0	
GE 2600	29.7	37.9	51.5	59.7	62.0	66.4	71.2	71.9	74.9	75.1	75.7	76.4	77.7	78.9	81.4	
GE 2000	30.1	38.8	53.1	61.3	63.6	68.2	73.1	73.7	76.9	77.0	77.7	78.3	79.6	80.8	83.3	
GE 1800	30.5	39.2	53.8	62.1	64.4	69.0	73.9	74.5	77.7	77.8	78.4	79.1	80.4	81.6	84.1	
GE 1500	31.0	40.1	55.3	63.6	66.0	70.9	76.1	76.8	80.2	80.3	80.9	81.6	82.9	84.1	86.6	
GE 1200	32.1	41.3	57.0	65.5	68.1	73.1	78.4	79.1	82.6	82.7	83.4	84.1	85.4	86.6	89.1	
GE 1000	33.0	42.4	58.6	67.4	70.0	75.2	80.6	81.3	84.7	84.9	85.6	86.3	87.6	88.9	91.4	
GE 900	33.1	42.5	58.9	67.9	70.7	75.9	81.6	82.4	85.8	85.9	86.7	87.4	88.7	90.0	92.5	
GE 800	33.1	42.5	59.2	68.3	71.2	76.6	82.2	83.0	86.6	86.7	87.5	88.1	89.4	90.7	93.2	
GE 700	33.3	42.8	59.5	68.7	71.7	77.0	82.9	83.8	87.5	87.6	88.3	89.0	90.3	91.6	94.1	
GE 600	33.3	42.8	59.6	69.2	72.4	78.0	83.9	85.0	88.7	88.8	89.5	90.2	91.5	92.8	95.3	
GE 500	33.3	42.8	60.0	69.4	72.8	78.4	84.5	85.6	89.3	89.5	90.3	91.0	92.3	93.6	96.1	
GE 400	33.3	42.8	60.0	69.4	73.0	78.8	85.0	86.1	90.1	90.3	91.1	91.7	93.0	94.3	96.8	
GE 300	33.3	42.8	60.0	69.4	73.0	78.8	85.1	86.3	90.3	90.5	91.3	91.9	93.4	94.8	97.9	
GE 200	33.3	42.8	60.0	69.4	73.0	78.8	85.1	86.3	90.3	90.5	91.3	91.9	93.4	94.9	98.1	
GE 100	33.3	42.8	60.0	69.4	73.0	78.8	85.1	86.3	90.3	90.5	91.3	91.9	93.4	94.9	99.8	
GE 0	33.3	42.8	60.0	69.4	73.0	78.8	85.1	86.3	90.3	90.5	91.3	91.9	93.4	95.1	100.0	

TOTAL NUMBER OF OBSERVATIONS: 918

GLOBAL CLIMATOLOGY BRANCH — PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
USAFETAC — FROM HOURLY OBSERVATIONS
AIR WEATHER SERVICE/MAC

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER — PERIOD OF RECORD: 78-87
MONTH: MAY HOURS(LST): 0600-0800

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		17.9	20.7	25.6	29.0	30.2	32.5	33.4	33.8	34.4	34.4	34.7	34.8	35.5	36.3	36.7
GE 20000		19.8	23.1	29.1	32.9	34.4	36.8	38.0	38.3	39.0	39.0	39.6	39.7	40.4	41.2	42.1
GE 18000		20.8	24.2	31.1	34.8	36.4	38.7	39.9	40.3	41.0	41.0	41.7	41.8	42.4	43.3	44.2
GE 16000		20.9	24.4	31.2	35.0	36.5	38.9	40.0	40.4	41.1	41.1	41.8	41.9	42.5	43.4	44.3
GE 14000		20.9	24.4	31.2	35.0	36.5	38.9	40.0	40.4	41.1	41.1	41.8	41.9	42.5	43.4	44.3
GE 12000		20.9	24.4	31.3	35.1	36.6	39.0	40.2	40.5	41.2	41.2	41.9	42.0	42.6	43.5	44.4
GE 10000		22.7	26.6	34.0	38.0	39.5	42.0	43.2	43.5	44.3	44.3	45.1	45.2	45.9	46.8	47.6
GE 9000		23.1	26.9	34.4	38.4	39.9	42.5	43.8	44.2	44.9	44.9	45.9	46.0	46.6	47.5	48.4
GE 8000		25.0	30.1	38.4	43.2	44.7	47.7	49.2	49.7	50.5	50.5	51.5	51.6	52.3	53.1	54.1
GE 7000		26.8	32.8	41.6	46.5	46.3	51.6	53.2	53.8	54.9	55.0	56.1	56.2	56.8	57.7	58.7
GE 6000		27.1	33.0	41.9	46.9	48.6	51.9	53.6	54.1	55.2	55.3	56.4	56.5	57.1	58.0	59.0
GE 5000		28.8	35.1	44.0	49.0	50.9	54.2	55.8	56.4	57.5	57.6	58.8	58.9	59.5	60.4	61.4
GE 4500		29.3	35.7	45.1	50.2	52.2	55.5	57.5	58.0	59.2	59.3	60.6	60.7	61.4	62.2	63.2
GE 4000		31.1	37.6	48.2	54.0	56.4	59.8	62.0	62.6	63.7	63.9	65.2	65.3	66.0	66.9	67.9
GE 3500		31.6	38.1	49.6	55.7	58.1	61.7	63.9	64.4	65.7	65.8	67.1	67.2	68.0	68.8	69.8
GE 3000		33.2	39.8	52.2	58.7	61.3	64.8	67.1	67.6	69.0	69.2	70.5	70.6	71.3	72.3	73.3
GE 2500		34.2	40.9	53.9	60.4	63.1	66.8	69.2	69.7	71.3	71.4	72.8	72.9	73.7	74.7	75.6
GE 2000		35.2	42.3	55.7	62.4	65.2	69.0	71.5	72.1	73.9	74.0	75.4	75.5	76.4	77.4	78.4
GE 1800		35.5	42.9	56.4	63.1	65.8	69.7	72.2	72.7	74.6	74.7	76.1	76.2	77.1	78.0	79.0
GE 1500		37.9	45.7	60.5	67.7	70.5	74.5	77.2	77.7	79.5	79.7	81.1	81.2	82.0	83.0	84.0
GE 1200		39.4	47.5	62.9	70.7	73.6	78.0	80.7	81.3	83.1	83.2	84.6	84.7	85.6	86.6	87.6
GE 1000		40.3	48.5	64.3	72.7	75.9	80.3	83.1	83.7	85.6	85.7	87.1	87.2	88.1	89.1	90.0
GE 900		40.4	48.6	64.5	73.2	76.5	81.2	84.2	84.7	86.7	86.8	88.2	88.3	89.2	90.2	91.1
GE 800		40.4	48.6	64.6	73.6	77.1	81.7	84.6	85.4	87.3	87.4	88.9	89.0	89.8	90.8	91.8
GE 700		40.5	48.7	65.0	74.2	77.7	82.9	86.3	86.9	89.0	89.1	90.5	90.6	91.5	92.4	93.4
GE 600		40.6	48.8	65.5	75.2	78.6	84.2	87.7	88.2	90.4	90.5	91.9	92.0	92.9	93.8	94.8
GE 500		40.7	48.9	65.6	75.3	79.3	85.4	89.0	89.6	91.9	92.0	93.4	93.5	94.5	95.5	96.4
GE 400		40.7	48.9	65.6	75.3	79.4	85.6	89.6	90.3	92.6	92.7	94.2	94.3	95.3	96.3	97.3
GE 300		40.7	48.9	65.6	75.3	79.4	85.6	89.7	90.4	92.7	92.9	94.3	94.4	95.7	96.6	97.9
GE 200		40.7	48.9	65.6	75.3	79.4	85.6	89.7	90.4	92.7	93.1	94.5	94.7	96.1	97.2	98.9
GE 100		40.7	48.9	65.6	75.3	79.4	85.6	89.7	90.4	92.7	93.1	94.5	94.7	96.1	97.2	99.8
GE 0		40.7	48.9	65.6	75.3	79.4	85.6	89.7	90.4	92.7	93.1	94.5	94.7	96.1	97.3	100.0

TOTAL NUMBER OF OBSERVATIONS: 924

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10687C STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: MAY HOURS(LST): 0900-1100

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		28.0	29.7	31.0	31.3	31.3	31.3	31.4	31.4	31.5	31.5	31.5	31.5	31.5	31.5	31.5
GE 20000		33.2	34.0	37.1	37.4	37.4	37.4	37.5	37.5	37.6	37.6	37.6	37.6	37.6	37.6	37.6
GE 18000		33.9	34.6	38.1	38.4	38.4	38.4	38.5	38.5	38.6	38.6	38.6	38.6	38.6	38.6	38.6
GE 16000		34.3	35.1	38.5	38.8	38.8	38.8	38.9	38.9	39.0	39.0	39.0	39.0	39.0	39.0	39.0
GE 14000		34.5	35.3	38.7	39.0	39.0	39.0	39.1	39.1	39.2	39.2	39.2	39.2	39.2	39.2	39.2
GE 12000		35.4	36.1	39.9	40.2	40.2	40.2	40.3	40.3	40.4	40.4	40.4	40.4	40.4	40.4	40.4
GE 10000		37.3	38.1	42.4	42.7	42.7	42.7	42.8	42.8	42.9	42.9	42.9	42.9	42.9	42.9	42.9
GE 9000		38.3	39.0	43.3	43.6	43.6	43.8	43.9	43.9	44.0	44.0	44.0	44.0	44.0	44.0	44.0
GE 8000		42.7	43.5	48.6	49.2	49.2	49.2	49.4	49.4	49.5	49.5	49.5	49.5	49.5	49.5	49.5
GE 7000		45.8	47.0	52.3	53.2	53.2	53.2	53.3	53.3	53.4	53.4	53.4	53.4	53.4	53.4	53.4
GE 6000		46.1	47.3	52.7	53.7	53.7	53.7	53.8	53.8	53.9	53.9	53.9	53.9	53.9	53.9	53.9
GE 5000		48.2	49.4	54.6	55.8	55.8	55.8	56.2	56.2	56.3	56.3	56.3	56.3	56.3	56.3	56.3
GE 4500		49.1	50.3	56.1	57.1	57.1	57.1	57.5	57.5	57.6	57.6	57.6	57.6	57.6	57.6	57.6
GE 4000		51.9	53.1	59.1	60.4	60.8	60.8	61.2	61.2	61.3	61.3	61.3	61.3	61.3	61.3	61.3
GE 3500		54.1	55.5	61.7	63.1	63.4	63.4	63.9	63.9	64.0	64.0	64.0	64.0	64.0	64.0	64.0
GE 3000		63.1	64.7	71.9	73.8	74.1	74.2	74.8	74.8	74.9	74.9	74.9	74.9	74.9	74.9	74.9
GE 2500		66.1	68.1	75.5	77.4	78.0	78.2	78.8	78.8	78.9	78.9	78.9	78.9	78.9	78.9	78.9
GE 2000		67.8	70.0	78.6	80.9	81.5	81.8	82.5	82.5	82.6	82.6	82.6	82.6	82.6	82.6	82.6
GE 1800		69.2	71.4	80.4	82.7	83.3	83.7	84.3	84.3	84.4	84.4	84.4	84.4	84.4	84.4	84.4
GE 1500		72.8	75.8	85.4	88.0	88.8	89.1	89.8	89.8	90.1	90.1	90.1	90.1	90.1	90.1	90.1
GE 1200		74.3	77.7	88.1	90.9	92.0	92.6	93.3	93.3	93.7	93.7	93.7	93.7	93.7	93.7	93.7
GE 1000		74.8	78.3	89.4	92.5	93.8	94.6	95.4	95.4	95.8	95.9	95.9	95.9	95.9	95.9	95.9
GE 900		74.9	78.4	89.7	92.9	94.2	95.4	96.1	96.1	96.6	96.7	96.7	96.7	96.7	96.7	96.7
GE 800		75.2	78.6	90.2	93.4	94.7	96.0	96.8	96.8	97.2	97.3	97.3	97.3	97.3	97.3	97.3
GE 700		75.3	78.7	90.9	94.1	95.4	96.7	97.4	97.4	97.8	98.0	98.0	98.0	98.0	98.0	98.0
GE 600		75.5	79.0	91.2	94.7	96.0	97.4	98.2	98.2	98.6	98.7	98.7	98.7	98.7	98.7	98.7
GE 500		75.5	79.0	91.3	94.9	96.3	97.8	98.6	98.6	99.0	99.1	99.2	99.2	99.2	99.2	99.2
GE 400		75.5	79.0	91.3	94.9	96.3	97.8	98.6	98.6	99.0	99.1	99.2	99.2	99.5	99.5	99.5
GE 300		75.5	79.0	91.3	94.9	96.3	97.8	98.7	98.7	99.1	99.2	99.4	99.4	99.6	99.6	99.6
GE 200		75.5	79.0	91.3	94.9	96.3	97.8	98.7	98.7	99.2	99.4	99.5	99.5	99.7	99.7	99.7
GE 100		75.5	79.0	91.3	94.9	96.3	97.8	98.7	98.7	99.2	99.4	99.5	99.5	99.7	99.7	99.8
GE 0		75.7	79.2	91.5	95.2	96.6	98.1	98.9	98.9	99.5	99.6	99.7	99.7	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: MAY HOURS(LST): 1200-1400

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		28.7	28.8	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1
GE 20000		33.9	34.0	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6
GE 18000		34.6	34.7	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4
GE 16000		35.1	35.2	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8
GE 14000		35.4	35.5	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
GE 12000		36.2	36.3	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1
GE 10000		39.2	39.7	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4
GE 9000		40.2	40.6	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4
GE 8000		43.9	44.4	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
GE 7000		47.4	48.1	49.4	49.4	49.4	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5
GE 6000		48.6	48.7	50.2	50.2	50.2	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4
GE 5000		50.3	51.1	52.6	52.6	52.6	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
GE 4500		52.5	53.3	55.1	55.1	55.1	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
GE 4000		58.9	59.8	61.7	62.0	62.0	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
GE 3500		63.7	64.5	66.7	67.0	67.0	67.2	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
GE 3000		77.6	78.8	81.4	82.3	82.3	82.6	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
GE 2500		82.6	83.7	86.3	87.2	87.2	87.5	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
GE 2000		85.3	86.9	90.3	91.6	91.6	91.9	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
GE 1800		85.8	87.4	91.2	92.5	92.5	92.8	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
GE 1500		87.7	89.6	93.8	95.2	95.2	95.5	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
GE 1200		88.7	90.5	95.1	97.0	97.0	97.3	97.5	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6
GE 1000		88.9	90.8	95.3	97.5	97.5	97.8	98.1	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2
GE 900		89.0	90.9	95.5	97.7	97.7	98.4	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GE 800		89.2	91.1	95.9	98.3	98.3	98.9	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 700		89.2	91.1	96.0	98.5	98.5	99.1	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 600		89.2	91.1	96.0	98.6	98.7	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 500		89.2	91.1	96.1	98.7	98.8	99.5	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 400		89.2	91.1	96.1	98.7	98.8	99.5	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 300		89.2	91.1	96.1	98.7	98.8	99.5	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 200		89.2	91.1	96.1	98.7	98.8	99.5	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 100		89.2	91.1	96.1	98.7	98.8	99.5	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 0		89.2	91.2	96.2	98.8	98.9	99.6	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: MAY HOURS(LST): 1500-1700

CEILING IN FEET	CT 160	VISIBILITY IN HUNDREDS OF METERS: GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		27.8	27.8	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6
GE 20000		37.4	37.6	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4
GE 18000		38.2	38.4	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
GE 16000		38.2	38.4	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
GE 14000		38.8	39.1	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8
GE 12000		39.7	39.9	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0
GE 10000		42.4	42.8	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
GE 9000		43.4	43.9	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
GE 8000		49.1	49.8	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1
GE 7000		52.8	53.6	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2
GE 6000		53.2	54.0	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8
GE 5000		56.1	57.0	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
GE 4500		58.6	59.5	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
GE 4000		63.9	65.4	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
GE 3500		70.1	72.1	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
GE 3000		81.6	84.3	87.4	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
GE 2500		84.6	87.1	90.9	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
GE 2000		86.6	89.6	93.6	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
GE 1800		86.9	90.0	94.2	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
GE 1500		88.1	91.3	96.5	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
GE 1200		88.5	92.0	97.8	98.7	98.9	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 1000		88.6	92.1	98.0	98.8	99.0	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 900		88.7	92.2	98.2	99.0	99.2	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 800		88.7	92.2	98.2	99.0	99.2	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 700		88.7	92.2	98.4	99.2	99.5	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 600		88.7	92.2	98.4	99.2	99.5	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 500		88.7	92.2	98.5	99.4	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400		88.7	92.2	98.5	99.4	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300		88.7	92.2	98.5	99.4	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200		88.7	92.2	98.5	99.4	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100		88.7	92.2	98.5	99.4	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 0		88.7	92.2	98.5	99.4	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 927

GLOBAL CLIMATOLOGY BRANCH — PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
USAFETAC — FROM HOURLY OBSERVATIONS
AIR WEATHER SERVICE/MAC

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER — PERIOD OF RECORD: 78-87
MONTH: MAY HOURS(LST): 1800-2000

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	75.7	36.4	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.1	37.1	37.1	37.1
GE 20000	45.5	46.3	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.3	47.3	47.3	47.3	47.3
GE 18000	46.8	47.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.9	48.9	48.9	48.9
GE 16000	46.9	47.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	49.0	49.0	49.0	49.0
GE 14000	47.3	48.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.4	49.4	49.4	49.4
GE 12000	48.8	49.8	51.1	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.4	51.4	51.4	51.4
GE 10000	51.7	53.2	54.6	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.8	54.8	54.8	54.8
GE 9000	53.5	55.0	56.5	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.7	56.7	56.7	56.7
GE 8000	58.6	60.8	62.6	62.8	63.0	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.2	63.2	63.2	63.2
GE 7000	62.4	64.9	67.1	67.4	67.6	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.9	67.9	67.9	67.9
GE 6000	62.8	65.4	67.5	67.9	68.1	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.3	68.3	68.3	68.3
GE 5000	67.1	70.0	72.7	73.3	73.5	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.7	73.7	73.7	73.7
GE 4500	68.5	71.4	74.4	75.0	75.2	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.5	75.5	75.5	75.5
GE 4000	72.4	75.5	78.8	79.7	79.9	80.1	80.1	80.1	80.2	80.2	80.2	80.2	80.3	80.3	80.3	80.3
GE 3500	75.1	78.5	82.1	83.0	83.2	83.4	83.4	83.4	83.5	83.5	83.5	83.5	83.6	83.6	83.6	83.6
GE 3000	79.3	83.0	87.1	88.1	88.3	88.5	88.5	88.6	88.7	88.7	88.7	88.7	88.8	88.8	88.8	88.8
GE 2500	80.6	84.6	89.1	90.3	90.6	90.8	90.8	90.9	91.0	91.0	91.0	91.0	91.1	91.1	91.1	91.1
GE 2000	82.1	86.1	91.1	92.4	92.7	93.2	93.2	93.3	93.5	93.5	93.5	93.5	93.6	93.6	93.6	93.6
GE 1800	82.1	86.1	91.6	92.9	93.3	93.7	93.7	93.8	94.0	94.0	94.0	94.0	94.1	94.1	94.1	94.1
GE 1500	82.7	87.1	92.8	94.6	94.9	95.3	95.3	95.4	95.7	95.7	95.7	95.7	95.8	95.8	95.8	95.8
GE 1200	83.1	87.5	94.7	97.2	97.5	97.9	98.2	98.3	98.5	98.5	98.5	98.5	98.6	98.6	98.6	98.6
GE 1000	83.4	87.8	95.2	97.7	98.0	98.5	98.7	98.8	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1
GE 900	83.4	87.8	95.2	97.7	98.0	98.5	98.7	98.8	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1
GE 800	83.4	87.8	95.2	97.7	98.3	98.7	98.9	99.0	99.3	99.3	99.3	99.3	99.5	99.5	99.5	99.5
GE 700	83.4	87.8	95.2	97.7	98.3	98.7	99.0	99.1	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6
GE 600	83.4	87.8	95.2	97.7	98.4	98.8	99.1	99.2	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7
GE 500	83.4	87.8	95.3	97.8	98.5	99.1	99.5	99.6	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 400	83.4	87.8	95.3	97.8	98.5	99.1	99.5	99.6	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 300	83.4	87.8	95.3	97.8	98.5	99.1	99.5	99.6	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 200	83.4	87.8	95.3	97.8	98.5	99.1	99.5	99.6	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 100	83.4	87.8	95.3	97.8	98.5	99.1	99.5	99.6	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 0	83.4	87.8	95.3	97.8	98.5	99.1	99.5	99.6	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 921

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10687D STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: MAY HOURS(LST): 2100-2300

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		42.4	45.8	49.6	50.0	50.0	50.2	50.4	50.7	50.8	51.0	51.0	51.0	51.3	51.4	51.7
GE 20000		47.5	51.0	54.9	55.4	55.4	55.6	55.9	56.1	56.2	56.4	56.4	56.4	56.7	56.8	57.2
GE 18000		49.0	52.7	56.8	57.4	57.4	57.6	57.8	58.0	58.1	58.4	58.4	58.4	58.7	58.8	59.1
GE 16000		49.0	52.7	56.8	57.4	57.4	57.6	57.8	58.0	58.1	58.4	58.4	58.4	58.7	58.8	59.1
GE 14000		49.0	52.7	56.9	57.5	57.5	57.7	57.9	58.1	58.2	58.5	58.5	58.5	58.8	58.9	59.2
GE 12000		50.0	53.8	58.0	58.6	58.6	58.8	59.0	59.2	59.3	59.5	59.5	59.5	59.9	60.0	60.3
GE 10000		51.2	55.3	59.9	60.4	60.4	60.7	61.0	61.2	61.3	61.5	61.5	61.5	61.8	61.9	62.3
GE 9000		52.3	56.4	61.0	61.5	61.5	61.8	62.0	62.3	62.4	62.6	62.6	62.6	62.9	63.0	63.3
GE 8000		56.0	61.2	66.3	66.9	66.9	67.2	67.5	67.7	67.8	68.0	68.0	68.0	68.3	68.4	68.6
GE 7000		57.3	62.8	67.9	68.5	68.5	68.9	69.1	69.3	69.4	69.6	69.6	69.6	70.0	70.1	70.4
GE 6000		57.4	62.9	68.1	68.8	68.8	69.1	69.3	69.5	69.6	69.8	69.8	69.8	70.2	70.3	70.6
GE 5000		61.0	66.9	72.8	73.4	73.4	73.8	74.4	74.6	74.7	74.9	74.9	74.9	75.3	75.4	75.7
GE 4500		61.6	67.6	73.5	74.2	74.2	74.5	75.2	75.4	75.5	75.7	75.7	75.7	76.0	76.1	76.5
GE 4000		64.0	70.5	76.8	77.8	77.8	78.2	78.9	79.1	79.4	79.6	79.6	79.6	79.9	80.0	80.4
GE 3500		66.3	73.0	79.6	80.9	80.9	81.3	82.0	82.2	82.5	82.8	82.8	82.8	83.1	83.2	83.5
GE 3000		68.8	75.8	83.2	84.7	84.8	85.7	86.3	86.8	87.2	87.4	87.4	87.4	87.7	87.9	88.2
GE 2500		69.3	76.7	84.8	86.7	86.8	87.7	88.4	88.8	89.3	89.5	89.5	89.5	89.8	89.9	90.2
GE 2000		69.8	77.2	85.8	88.0	88.2	89.6	90.3	90.8	91.3	91.5	91.5	91.5	91.9	92.0	92.3
GE 1800		70.0	77.3	85.9	88.1	88.3	89.7	90.5	90.9	91.4	91.6	91.6	91.6	92.0	92.1	92.4
GE 1500		70.3	78.0	87.1	89.5	89.7	91.1	91.9	92.3	92.8	93.1	93.1	93.1	93.4	93.5	93.8
GE 1200		70.9	78.6	88.6	91.3	91.5	93.3	94.1	94.7	95.3	95.6	95.6	95.6	95.9	96.0	96.3
GE 1000		70.9	78.6	89.2	92.1	92.3	94.3	95.1	95.7	96.3	96.5	96.5	96.5	96.9	97.0	97.3
GE 900		70.9	78.6	89.4	92.3	92.5	94.5	95.3	95.9	96.5	96.7	96.7	96.7	97.1	97.2	97.5
GE 800		70.9	78.6	89.6	92.6	92.8	94.9	95.8	96.3	97.2	97.4	97.4	97.4	97.7	97.8	98.2
GE 700		71.0	78.7	89.7	92.8	93.1	95.4	96.3	96.9	97.7	97.9	97.9	97.9	98.3	98.4	98.7
GE 600		71.1	78.9	90.1	93.3	93.5	95.9	96.7	97.3	98.3	98.5	98.5	98.5	98.8	98.9	99.2
GE 500		71.1	79.2	90.5	93.6	93.8	96.2	97.1	97.6	98.7	98.9	98.9	98.9	99.2	99.3	99.7
GE 400		71.4	79.4	90.7	93.6	94.0	96.4	97.4	97.9	99.0	99.2	99.2	99.2	99.6	99.7	100.0
GE 300		71.4	79.4	90.7	93.8	94.0	96.4	97.4	97.9	99.0	99.2	99.2	99.2	99.6	99.7	100.0
GE 200		71.4	79.4	90.7	93.8	94.0	96.4	97.4	97.9	99.0	99.2	99.2	99.2	99.6	99.7	100.0
GE 100		71.4	79.4	90.7	93.8	94.0	96.4	97.4	97.9	99.0	99.2	99.2	99.2	99.6	99.7	100.0
GE 0		71.4	79.4	90.7	93.8	94.0	96.4	97.4	97.9	99.0	99.2	99.2	99.2	99.6	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS: 942

GLOBAL CLIMATOLOGY BRANCH — PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
USAFETAC — FROM HOURLY OBSERVATIONS
AIR WEATHER SERVICE/MAC

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER — PERIOD OF RECORD: 78-87
MONTH: MAY HOURS(LST): ALL

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 96	GE 80	GE 64	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		28.5	30.5	33.6	34.9	35.3	36.0	36.7	36.8	37.2	37.3	37.4	37.5	37.8	38.1	38.6
GE 20000		33.5	35.7	39.4	40.7	41.2	41.9	42.6	42.8	43.2	43.2	43.4	43.5	43.8	44.2	44.7
GE 18000		34.4	36.8	40.6	42.0	42.5	43.2	43.9	44.0	44.5	44.5	44.7	44.8	45.1	45.5	46.0
GE 16000		34.6	36.9	40.8	42.2	42.6	43.4	44.1	44.2	44.7	44.7	44.8	45.0	45.3	45.7	46.2
GE 14000		34.8	37.1	41.0	42.4	42.8	43.6	44.3	44.4	44.9	44.9	45.1	45.2	45.5	45.9	46.4
GE 12000		35.5	37.8	41.9	43.3	43.6	44.5	45.2	45.4	45.8	45.9	46.0	46.2	46.5	46.8	47.3
GE 10000		37.6	40.2	44.5	46.0	46.5	47.3	48.0	48.1	48.6	48.7	48.8	49.0	49.3	49.7	50.2
GE 9000		38.4	41.1	45.5	47.0	47.4	48.3	49.0	49.1	49.6	49.6	49.8	50.0	50.3	50.7	51.2
GE 8000		41.9	45.1	50.1	51.9	52.4	53.4	54.2	54.4	55.0	55.0	55.2	55.4	55.7	56.1	56.7
GE 7000		44.5	48.0	53.3	55.2	55.7	56.8	57.6	57.8	58.4	58.5	58.7	58.9	59.2	59.6	60.2
GE 6000		44.8	48.3	53.7	55.6	56.2	57.3	58.1	58.3	58.9	58.9	59.1	59.3	59.7	60.0	60.6
GE 5000		47.4	51.2	57.0	58.9	59.5	60.6	61.5	61.7	62.3	62.4	62.6	62.8	63.1	63.5	64.1
GE 4500		48.6	52.5	58.6	60.7	61.3	62.4	63.4	63.6	64.2	64.3	64.5	64.7	65.1	65.5	66.0
GE 4000		51.9	56.2	62.9	65.3	66.0	67.3	68.4	68.6	69.3	69.3	69.6	69.7	70.1	70.5	71.1
GE 3500		54.5	58.9	66.0	68.5	69.2	70.5	71.7	71.8	72.6	72.6	72.9	73.0	73.4	73.8	74.4
GE 3000		60.5	65.3	73.1	76.1	76.8	78.3	79.5	79.7	80.5	80.5	80.8	81.0	81.4	81.7	82.3
GE 2500		62.4	67.4	75.6	78.8	79.6	81.1	82.3	82.6	83.4	83.5	83.7	83.9	84.3	84.7	85.3
GE 2000		63.7	69.0	77.8	81.3	82.1	83.8	85.1	85.4	86.3	86.3	86.6	86.8	87.2	87.6	88.2
GE 1800		64.1	69.5	78.5	81.9	82.8	84.5	85.8	86.0	87.0	87.0	87.3	87.5	87.9	88.3	88.9
GE 1500		65.5	71.2	80.9	84.6	85.6	87.3	88.8	89.0	90.0	90.1	90.3	90.5	90.9	91.3	91.9
GE 1200		66.5	72.4	82.7	86.8	87.9	89.9	91.4	91.6	92.7	92.7	93.0	93.2	93.6	94.0	94.6
GE 1000		66.9	72.9	83.6	88.0	89.1	91.2	92.7	92.9	94.0	94.1	94.3	94.5	94.9	95.3	95.9
GE 900		66.9	73.6	83.8	88.2	89.4	91.6	93.2	93.4	94.5	94.6	94.8	95.0	95.4	95.8	96.4
GE 800		67.0	73.0	84.0	88.5	89.7	92.0	93.6	93.8	94.9	95.0	95.3	95.5	95.9	96.3	96.9
GE 700		67.1	73.1	84.3	88.9	90.1	92.4	94.1	94.4	95.6	95.7	95.9	96.1	96.5	96.9	97.5
GE 600		67.1	73.2	84.5	89.2	90.5	93.0	94.7	95.0	96.2	96.3	96.5	96.7	97.1	97.5	98.1
GE 500		67.1	73.3	84.7	89.5	90.9	93.5	95.3	95.6	96.8	96.9	97.2	97.4	97.8	98.2	98.8
GE 400		67.2	73.3	84.8	89.6	91.0	93.6	95.5	95.8	97.1	97.2	97.5	97.6	98.1	98.5	99.1
GE 300		67.2	73.3	84.8	89.6	91.0	93.6	95.6	95.9	97.2	97.3	97.6	97.7	98.2	98.6	99.4
GE 200		67.2	73.3	84.8	89.6	91.0	93.6	95.6	95.9	97.2	97.3	97.6	97.8	98.3	98.7	99.6
GE 100		67.2	73.3	84.8	89.6	91.0	93.6	95.6	95.9	97.2	97.3	97.6	97.8	98.3	98.7	99.9
GE 0		67.2	73.3	84.8	89.6	91.1	93.7	95.6	95.9	97.2	97.3	97.6	97.8	98.3	98.8	100.0

TOTAL NUMBER OF OBSERVATIONS: 7390

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10687C STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: JUN HOURS(LST): 0000-0200

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	35.5	38.4	45.0	47.7	48.4	49.6	51.2	51.2	51.9	52.0	52.3	52.6	52.8	53.1	53.2	
GE 20000	38.5	41.6	48.7	51.5	52.2	53.6	55.2	55.2	55.9	56.0	56.5	56.7	56.9	57.3	57.4	
GE 18000	39.2	42.3	49.3	52.1	52.9	54.2	55.9	55.9	56.6	56.7	57.1	57.4	57.6	57.9	58.0	
GE 16000	39.2	42.3	49.4	52.2	53.0	54.4	56.0	56.0	56.7	56.8	57.3	57.5	57.7	58.0	58.1	
GE 14000	39.5	42.6	49.8	52.6	53.5	54.8	56.5	56.5	57.1	57.3	57.7	57.9	58.1	58.5	58.6	
GE 12000	40.5	43.8	51.0	54.0	55.0	56.4	58.0	58.0	58.7	58.8	59.3	59.5	59.7	60.0	60.2	
GE 10000	43.8	47.2	54.6	57.6	58.6	59.9	61.6	61.6	62.3	62.4	62.8	63.1	63.4	63.7	63.8	
GE 9000	44.3	47.8	55.1	58.1	59.2	60.6	62.4	62.4	63.1	63.2	63.6	63.8	64.2	64.5	64.6	
GE 8000	46.5	50.6	58.8	61.9	62.9	64.7	66.5	66.5	67.2	67.3	67.7	68.0	68.3	68.6	68.8	
GE 7000	47.4	51.7	60.4	63.5	64.5	66.6	68.6	68.6	69.4	69.5	70.0	70.2	70.5	70.9	71.0	
GE 6000	48.1	52.6	61.3	64.4	65.4	67.5	69.5	69.5	70.3	70.4	70.9	71.1	71.4	71.8	71.9	
GE 5000	49.7	54.4	63.6	67.0	68.0	70.1	72.1	72.1	73.0	73.1	73.5	73.8	74.1	74.4	74.6	
GE 4500	51.7	56.5	66.1	69.8	71.2	73.5	75.7	75.7	76.8	76.9	77.3	77.6	77.9	78.2	78.3	
GE 4000	55.6	60.7	71.7	75.7	77.2	80.0	82.5	82.5	83.6	83.7	84.2	84.4	84.7	85.0	85.2	
GE 3500	56.6	61.7	73.3	77.5	79.1	82.0	84.5	84.5	85.7	85.8	86.3	86.5	86.8	87.2	87.3	
GE 3000	57.5	62.6	75.1	79.7	81.5	85.0	87.6	87.6	89.0	89.1	89.5	89.7	90.1	90.4	90.5	
GE 2500	57.9	63.3	75.9	80.5	82.3	85.8	88.5	88.5	89.6	90.0	90.4	90.6	91.0	91.3	91.4	
GE 2000	59.6	65.1	78.0	82.6	84.7	88.6	91.3	91.3	92.6	92.7	93.2	93.4	93.8	94.1	94.2	
GE 1800	59.7	65.4	78.5	83.0	85.2	89.2	91.9	91.9	93.2	93.3	93.8	94.0	94.3	94.6	94.8	
GE 1500	59.8	65.5	79.0	83.6	85.8	90.2	92.9	93.0	94.3	94.4	94.9	95.1	95.4	95.8	95.9	
GE 1200	60.2	66.0	79.6	84.4	86.7	91.1	93.8	94.0	95.3	95.4	95.9	96.1	96.4	96.8	96.9	
GE 1000	60.2	66.1	79.9	85.0	87.4	92.1	94.8	95.0	96.3	96.4	96.9	97.1	97.4	97.8	97.9	
GE 900	60.2	66.1	80.1	85.3	87.6	92.3	95.0	95.2	96.5	96.7	97.1	97.3	97.7	98.0	98.1	
GE 800	60.2	66.1	80.4	85.8	88.2	92.9	95.5	95.8	97.1	97.2	97.7	97.9	98.2	98.5	98.7	
GE 700	60.2	66.1	80.5	86.4	88.7	93.4	96.1	96.3	97.7	97.8	98.2	98.4	98.8	99.1	99.2	
GE 600	60.2	66.1	80.5	86.4	88.7	93.4	96.1	96.3	97.7	97.8	98.2	98.4	98.8	99.1	99.2	
GE 500	60.2	66.1	80.5	86.4	88.7	93.4	96.1	96.3	97.7	97.8	98.2	98.4	98.8	99.1	99.4	
GE 400	60.2	66.1	80.5	86.4	88.7	93.4	96.1	96.3	97.7	97.8	98.2	98.4	98.8	99.1	99.4	
GE 300	60.2	66.1	80.5	86.4	88.7	93.4	96.1	96.3	97.7	97.8	98.2	98.4	98.9	99.2	99.8	
GE 200	60.2	66.1	80.5	86.4	88.7	93.4	96.1	96.3	97.7	97.8	98.2	98.4	98.9	99.2	99.8	
GE 100	60.2	66.1	80.5	86.4	88.7	93.4	96.1	96.3	97.7	97.8	98.2	98.4	98.9	99.2	99.8	
GE 0	60.2	66.1	80.5	86.4	88.7	93.4	96.1	96.3	97.7	97.8	98.2	98.4	98.9	99.2	100.0	

TOTAL NUMBER OF OBSERVATIONS: 896

GLOBAL CLIMATOLOGY BRANCH — PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
USAFETAC — FROM HOURLY OBSERVATIONS
AIR WEATHER SERVICE/MAC

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER — PERIOD OF RECORD: 77-86
MONTH: JUN HOURS(LST): 0300-0500

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	15.2	19.2	25.4	29.4	30.8	33.4	35.2	35.4	36.8	37.0	37.0	37.3	38.4	38.6	40.0	
GE 20000	16.7	20.9	27.4	31.4	32.8	35.9	37.7	37.9	39.6	39.8	39.9	40.2	41.5	41.7	43.6	
GE 18000	16.8	21.0	27.6	31.7	33.1	36.4	38.2	38.4	40.2	40.4	40.5	40.7	42.0	42.3	44.2	
GE 16000	16.8	21.0	27.6	31.7	33.1	36.4	38.2	38.4	40.2	40.4	40.5	40.7	42.0	42.3	44.2	
GE 14000	17.1	21.4	28.0	32.1	33.6	36.8	38.6	38.8	40.6	40.8	40.9	41.2	42.5	42.7	44.6	
GE 12000	17.4	22.1	28.9	33.0	34.5	37.8	39.6	39.8	41.6	41.8	41.9	42.2	43.5	43.7	45.6	
GE 10000	18.9	23.8	31.4	35.6	37.0	40.4	42.2	42.4	44.2	44.4	44.6	44.8	46.2	46.4	48.3	
GE 9000	19.5	24.8	32.4	36.7	38.3	41.6	43.5	43.7	45.5	45.7	45.9	46.2	47.7	47.9	49.8	
GE 8000	21.6	27.4	35.6	40.5	42.5	46.2	48.2	48.5	50.4	50.6	50.8	51.2	52.7	52.9	54.9	
GE 7000	23.0	29.3	38.4	43.5	45.5	49.5	51.6	51.9	53.9	54.3	54.6	54.9	56.5	56.7	58.8	
GE 6000	23.6	29.9	39.0	44.2	46.2	50.2	52.3	52.6	54.6	55.1	55.4	55.7	57.3	57.5	59.6	
GE 5000	25.1	31.8	41.5	46.7	48.7	52.7	55.1	55.4	57.4	57.8	58.2	58.6	60.3	60.5	62.6	
GE 4500	26.6	33.5	43.7	49.5	51.6	56.6	59.1	59.4	61.7	62.2	62.5	63.0	64.6	65.0	67.3	
GE 4000	30.9	38.5	50.2	57.2	59.4	64.7	67.6	68.0	70.5	71.0	71.3	71.7	73.4	73.7	76.1	
GE 3500	31.7	39.3	51.4	58.5	60.7	66.5	69.4	69.9	72.4	73.0	73.3	73.7	75.4	75.8	78.1	
GE 3000	34.3	41.8	55.5	63.3	66.0	72.2	75.3	75.8	78.6	79.2	79.5	80.1	81.8	82.1	84.5	
GE 2500	34.9	42.9	56.6	64.4	67.1	73.4	76.5	77.0	80.2	80.8	81.1	81.6	83.3	83.6	86.1	
GE 2000	36.3	44.7	58.8	66.9	69.6	76.2	79.3	79.9	83.4	84.0	84.3	84.9	86.5	86.9	89.3	
GE 1800	36.7	45.2	59.3	67.4	70.2	76.9	80.0	80.5	84.1	84.6	85.0	85.5	87.2	87.5	90.0	
GE 1500	37.4	45.9	60.1	68.6	71.6	78.5	81.6	82.3	86.0	86.7	87.0	87.5	89.2	89.7	92.1	
GE 1200	37.6	46.5	61.2	69.9	73.0	79.9	83.0	83.9	87.7	88.4	88.9	89.4	91.1	91.5	94.0	
GE 1000	37.6	46.7	61.4	70.6	73.7	80.8	83.9	84.8	88.7	89.4	89.9	90.4	92.1	92.5	95.0	
GE 900	37.6	46.7	61.4	70.7	73.9	80.9	84.2	85.1	89.1	89.9	90.3	90.9	92.5	93.0	95.4	
GE 800	37.7	46.8	61.7	71.2	74.3	81.5	84.9	85.8	89.9	90.7	91.1	91.7	93.3	93.8	96.2	
GE 700	37.7	46.9	61.8	71.4	74.5	81.9	85.2	86.1	90.2	91.0	91.4	92.0	93.7	94.1	96.6	
GE 600	37.8	47.2	62.2	71.9	75.0	82.3	85.6	86.7	90.6	91.5	92.1	92.7	94.3	94.8	97.2	
GE 500	37.8	47.2	62.2	71.9	75.0	82.3	86.0	86.9	91.0	91.8	92.3	92.9	94.8	95.2	98.0	
GE 400	37.8	47.2	62.2	71.9	75.0	82.3	86.0	86.9	91.0	91.8	92.4	93.0	94.9	95.3	98.1	
GE 300	37.8	47.2	62.2	71.9	75.0	82.3	86.0	86.9	91.0	91.8	92.4	93.0	94.9	95.4	98.2	
GE 200	37.8	47.2	62.2	71.9	75.0	82.3	86.0	86.9	91.0	91.8	92.4	93.0	94.9	95.4	98.6	
GE 100	37.8	47.2	62.2	71.9	75.0	82.3	86.0	86.9	91.0	91.8	92.4	93.0	94.9	95.4	99.2	
GE 0	37.8	47.2	62.2	71.9	75.0	82.3	86.0	86.9	91.0	91.8	92.4	93.0	94.9	95.4	100.0	

TOTAL NUMBER OF OBSERVATIONS: 899

GLOBAL CLIMATOLOGY BRANCH — PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
USAFETAC — FROM HOURLY OBSERVATIONS
AIR WEATHER SERVICE/MAC

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER — PERIOD OF RECORD: 77-86
MONTH: JUN HOURS(LST): 0600-0800

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	19.0	21.6	29.9	33.9	34.7	36.0	36.9	37.0	37.3	37.3	37.4	37.6	37.8	37.8	38.3	
GE 20000	21.7	24.4	33.2	37.7	38.6	39.9	41.0	41.2	41.6	41.6	41.8	41.9	42.1	42.2	43.2	
GE 18000	22.0	24.8	33.6	38.0	38.9	40.2	41.3	41.6	41.9	41.9	42.1	42.2	42.4	42.6	43.6	
GE 16000	22.0	24.8	33.6	38.0	38.9	40.2	41.3	41.6	41.9	41.9	42.1	42.2	42.4	42.6	43.6	
GE 14000	22.1	24.9	33.8	38.2	39.1	40.4	41.6	41.8	42.1	42.1	42.3	42.4	42.7	42.8	43.8	
GE 12000	22.6	25.4	34.4	38.9	39.9	41.2	42.3	42.6	42.9	42.9	43.1	43.2	43.6	43.8	44.8	
GE 10000	23.8	26.9	36.6	41.1	42.2	43.8	44.9	45.1	45.4	45.4	45.7	45.8	46.2	46.4	47.4	
GE 9000	24.0	27.1	37.0	41.8	42.9	44.6	45.7	45.9	46.2	46.2	46.4	46.6	47.2	47.4	48.4	
GE 8000	26.9	30.2	42.0	47.4	48.6	50.4	52.0	52.2	52.6	52.6	52.8	52.9	53.6	53.8	54.8	
GE 7000	28.6	32.1	44.6	50.6	51.7	53.8	55.6	55.8	56.1	56.1	56.4	56.6	57.2	57.4	58.4	
GE 6000	29.0	32.6	45.0	51.2	52.3	54.6	56.3	56.7	57.0	57.0	57.3	57.4	58.1	58.3	59.3	
GE 5000	30.9	34.4	47.7	54.1	55.3	57.7	59.4	59.9	60.2	60.3	60.6	61.1	62.0	62.2	63.2	
GE 4500	32.7	36.2	50.1	56.7	58.0	60.7	62.6	63.0	63.4	63.6	64.0	64.3	65.2	65.4	66.4	
GE 4000	36.4	40.2	54.4	61.4	62.9	65.8	67.7	68.1	68.7	68.8	69.2	69.6	70.4	70.7	71.7	
GE 3500	38.6	42.3	57.0	64.0	65.6	68.4	70.6	71.0	71.6	71.7	72.1	72.4	73.3	73.6	74.6	
GE 3000	40.2	44.0	59.8	67.3	69.0	72.1	74.6	75.2	75.8	75.9	76.3	76.7	77.6	77.8	78.9	
GE 2500	41.9	46.0	62.3	70.1	71.9	75.0	77.6	78.3	79.1	79.2	79.7	80.0	80.9	81.1	82.2	
GE 2000	43.3	47.6	64.2	72.2	74.0	77.4	80.2	81.0	81.9	82.1	82.6	82.9	83.8	84.0	85.1	
GE 1800	43.7	48.0	65.2	73.2	75.0	78.4	81.2	82.0	83.0	83.2	83.7	84.0	84.9	85.1	86.2	
GE 1500	45.1	50.1	67.7	75.8	77.7	81.7	84.4	85.2	86.2	86.4	86.9	87.2	88.1	88.3	89.4	
GE 1200	46.2	51.4	69.2	78.0	79.9	84.1	87.0	87.8	88.9	89.2	89.8	90.1	91.0	91.2	92.3	
GE 1000	46.4	51.8	70.3	79.7	81.6	86.0	89.2	90.0	91.3	91.7	92.2	92.6	93.4	93.7	94.8	
GE 900	46.7	52.0	70.8	80.2	82.1	86.6	89.8	90.6	91.9	92.2	92.8	93.1	94.0	94.2	95.3	
GE 800	46.7	52.1	71.0	80.4	82.3	87.2	90.4	91.2	92.7	93.0	93.6	93.9	94.9	95.1	96.2	
GE 700	46.7	52.1	71.0	80.6	82.4	87.4	90.8	91.7	93.3	93.7	94.3	94.7	95.7	96.0	97.1	
GE 600	47.1	52.9	71.8	81.3	83.2	88.6	92.1	93.0	94.7	95.0	95.7	96.0	97.0	97.3	98.6	
GE 500	47.2	53.0	71.9	81.4	83.3	88.7	92.2	93.1	94.8	95.1	95.8	96.1	97.2	97.6	98.8	
GE 400	47.2	53.0	71.9	81.4	83.3	88.8	92.3	93.2	94.9	95.2	96.1	96.4	97.6	97.9	99.1	
GE 300	47.2	53.0	71.9	81.4	83.3	88.8	92.3	93.2	94.9	95.2	96.1	96.4	97.6	97.9	99.1	
GE 200	47.2	53.0	71.9	81.4	83.3	88.8	92.3	93.2	95.0	95.3	96.2	96.6	97.7	98.1	99.6	
GE 100	47.2	53.0	71.9	81.4	83.3	88.8	92.3	93.2	95.0	95.3	96.2	96.6	97.7	98.2	99.9	
GE 0	47.2	53.0	71.9	81.4	83.3	88.9	92.3	93.2	95.0	95.3	96.2	96.6	97.7	98.2	100.0	

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: JUN HOURS(LST): 0900-1100

CEILING IN FEET		VISIBILITY IN HUNDREDS OF METERS														
	GE 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	29.9	31.1	33.2	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3
GE 20000	35.7	36.9	39.4	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7
GE 18000	36.4	37.7	40.3	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6
GE 16000	36.6	37.8	40.4	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7
GE 14000	36.8	38.0	40.7	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9
GE 12000	37.0	38.2	40.9	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
GE 10000	38.4	39.9	42.9	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
GE 9000	39.0	40.4	43.4	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7
GE 8000	42.6	44.3	48.7	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1
GE 7000	45.2	46.8	51.7	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
GE 6000	45.3	46.9	52.0	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6
GE 5000	48.3	49.9	55.4	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
GE 4500	50.4	52.0	57.7	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
GE 4000	56.6	58.7	64.6	65.7	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
GE 3500	60.6	62.6	68.9	69.8	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
GE 3000	70.8	72.4	80.2	81.9	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
GE 2500	72.1	74.8	83.0	84.9	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
GE 2200	75.3	78.3	87.8	89.8	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
GE 1800	76.2	79.2	89.0	91.1	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
GE 1500	78.6	81.6	91.6	94.1	94.3	94.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
GE 1200	80.1	83.1	93.3	96.0	96.3	96.3	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
GE 1000	80.3	83.4	94.0	97.1	97.4	97.6	97.7	97.7	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8
GE 900	80.6	83.7	94.4	97.6	97.9	98.0	98.1	98.1	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2
GE 800	80.6	83.8	94.6	97.7	98.0	98.1	98.3	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4
GE 700	80.6	83.8	94.6	97.8	98.4	98.9	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 600	80.7	83.9	94.7	98.0	98.9	99.3	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 500	80.7	83.9	94.7	98.0	98.9	99.3	99.6	99.6	99.6	99.7	99.7	99.7	99.8	99.8	99.8	99.8
GE 400	80.7	83.9	94.7	98.0	98.9	99.3	99.6	99.6	99.6	99.7	99.7	99.7	99.8	99.8	99.8	99.8
GE 300	80.7	83.9	94.7	98.0	98.9	99.3	99.6	99.7	99.7	99.8	99.8	99.8	99.9	99.9	99.9	99.9
GE 200	80.7	83.9	94.7	98.0	98.9	99.3	99.6	99.7	99.7	99.8	99.8	99.8	99.9	99.9	99.9	99.9
GE 100	80.7	83.9	94.7	98.0	98.9	99.3	99.6	99.7	99.7	99.8	99.8	99.8	99.9	99.9	99.9	99.9
GE 0	80.8	84.0	94.8	98.1	99.0	99.4	99.7	99.8	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: JUN HOURS(LST): 1200-1400

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		27.7	28.1	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3
GE 20000		32.6	33.1	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4
GE 18000		33.7	34.4	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8
GE 16000		33.8	34.6	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9
GE 14000		33.9	34.7	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
GE 12000		34.7	35.4	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8
GE 10000		37.3	38.2	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6
GE 9000		38.6	39.4	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8
GE 8000		43.8	44.9	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8
GE 7000		46.9	48.0	49.8	49.8	49.8	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9
GE 6000		47.4	48.6	50.3	50.3	50.3	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4
GE 5000		51.3	52.4	54.6	54.6	54.6	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
GE 4500		54.3	55.4	57.6	57.6	57.6	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
GE 4000		62.6	63.8	66.1	66.1	66.1	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2
GE 3500		67.9	69.3	72.2	72.2	72.2	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
GE 3000		83.6	85.4	88.8	88.8	88.8	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
GE 2500		85.9	89.2	92.0	92.1	92.1	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
GE 2000		88.3	91.1	95.2	95.3	95.3	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 1800		89.0	91.8	96.0	96.1	96.1	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
GE 1500		90.3	93.1	97.6	97.7	97.7	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
GE 1200		90.7	93.4	98.3	98.4	98.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GE 1000		90.8	93.7	98.6	99.0	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
GE 900		90.9	93.8	98.7	99.1	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 800		90.9	93.8	98.7	99.1	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 700		90.9	93.8	98.7	99.1	99.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 600		90.9	93.8	98.7	99.2	99.3	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 500		90.9	93.8	98.7	99.2	99.3	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 400		90.9	93.8	98.7	99.2	99.3	99.7	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0
GE 300		90.9	93.8	98.7	99.2	99.3	99.7	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0
GE 200		90.9	93.8	98.7	99.2	99.3	99.7	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0
GE 100		90.9	93.8	98.7	99.2	99.3	99.7	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0
GE 0		90.9	93.8	98.7	99.2	99.3	99.7	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 950

AD-A186 616 GRAFENWOHR AAF GERMANY REVISED UNIFORM SUMMARY OF SURFACE WEATHER OBSERVA..(U) AIR FORCE ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER SCOTT A.. OCT 87 3/3

UNCLASSIFIED USAFETAC/DS-87/063 F/G 4/2 NL

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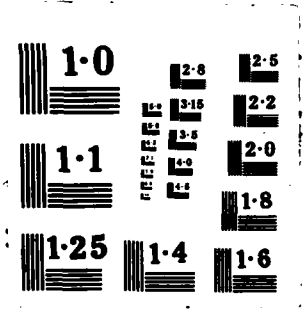
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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10687D STATION NAME: GRAFENWOHR AAF GER PERIOD OF RECORD: 77-86
MONTH: JUN HOURS(LST): 1500-1700

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS														
	GT 100	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	28.9	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	
GE 20000	36.0	37.3	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4
GE 18000	38.1	39.4	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
GE 16000	38.2	39.6	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7
GE 14000	38.4	39.8	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9
GE 12000	38.9	40.2	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3
GE 10000	42.7	44.0	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
GE 9000	44.6	45.9	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0
GE 8000	50.1	51.7	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
GE 7000	53.9	55.4	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
GE 6000	54.7	56.2	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
GE 5000	60.2	61.9	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
GE 4500	63.2	65.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
GE 4000	72.3	74.6	76.0	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
GE 3500	77.8	80.4	81.9	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
GE 3000	88.1	91.1	93.0	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
GE 2500	89.4	92.7	94.9	95.1	95.1	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
GE 2000	91.1	94.3	96.9	97.1	97.1	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
GE 1800	91.6	94.8	97.3	97.6	97.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
GE 1500	91.8	95.1	97.9	98.1	98.1	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
GE 1200	92.4	95.8	98.6	98.9	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
GE 1000	92.6	95.9	98.8	99.3	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 900	92.6	95.9	98.9	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 800	92.6	95.9	98.9	99.6	99.6	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 700	92.6	95.9	98.9	99.6	99.6	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 600	92.6	95.9	98.9	99.6	99.6	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 500	92.6	95.9	98.9	99.6	99.6	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 400	92.6	95.9	98.9	99.6	99.6	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 300	92.6	95.9	98.9	99.6	99.6	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 200	92.6	95.9	98.9	99.6	99.6	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 100	92.6	95.9	98.9	99.6	99.6	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 0	92.7	96.0	99.0	99.7	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10687O STATION NAME: GRAFENWOHR AAF GER PERIOD OF RECORD: 77-86
MONTH: JUN HOURS(LST): 1800-2000

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		39.1	39.7	40.2	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6
GE 20000		48.7	49.4	50.3	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
GE 18000		51.3	52.2	53.2	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
GE 16000		51.3	52.2	53.2	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
GE 14000		51.3	52.2	53.2	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
GE 12000		52.4	53.4	54.4	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
GE 10000		55.4	56.4	57.4	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
GE 9000		57.0	58.0	59.1	59.4	59.4	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
GE 8000		63.6	64.8	66.2	66.6	66.6	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
GE 7000		66.3	67.8	69.3	69.9	69.9	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
GE 6000		67.6	69.0	70.6	71.1	71.1	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
GE 5000		71.9	73.4	75.2	75.9	75.9	76.0	76.0	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
GE 4500		75.3	77.6	79.6	80.2	80.2	80.3	80.3	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
GE 4000		81.1	83.6	85.8	86.6	86.6	86.8	86.8	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
GE 3500		83.6	86.2	88.6	89.4	89.4	89.8	89.8	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
GE 3000		86.6	89.4	92.2	93.2	93.2	93.6	93.6	93.7	93.8	93.8	93.8	93.8	93.8	93.8	93.8
GE 2500		88.0	91.0	94.2	95.6	95.6	96.0	96.0	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2
GE 2000		89.0	92.1	95.4	96.8	96.8	97.3	97.3	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6
GE 1800		89.0	92.1	95.6	96.9	96.9	97.4	97.4	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7
GE 1500		89.4	92.6	96.2	97.7	97.7	98.2	98.2	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4
GE 1200		89.8	92.9	96.9	98.3	98.3	98.9	98.9	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1
GE 1000		89.8	92.9	97.0	98.6	98.6	99.1	99.1	99.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 900		89.8	92.9	97.1	98.9	98.9	99.4	99.4	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 800		89.8	92.9	97.1	98.9	98.9	99.4	99.4	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 700		89.8	92.9	97.1	99.0	99.0	99.6	99.6	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 600		89.8	92.9	97.1	99.0	99.0	99.6	99.6	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 500		89.8	92.9	97.1	99.0	99.0	99.6	99.6	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400		89.8	92.9	97.1	99.0	99.0	99.6	99.6	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300		89.8	92.9	97.1	99.0	99.0	99.6	99.6	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200		89.8	92.9	97.1	99.0	99.0	99.6	99.6	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100		89.8	92.9	97.1	99.0	99.0	99.6	99.6	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 0		89.8	92.9	97.1	99.0	99.0	99.6	99.6	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER PERIOD OF RECORD: 77-86
MONTH: JUN HOURS(LST): 2100-2300

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		41.2	44.4	48.9	50.0	50.2	50.8	51.3	51.3	51.4	51.7	51.8	51.8	51.8	51.9	51.9
GE 20000		45.7	49.1	54.0	55.1	55.5	56.0	56.6	56.6	56.7	56.9	57.0	57.0	57.0	57.1	57.1
GE 18000		46.7	50.2	55.1	56.2	56.6	57.1	57.7	57.7	58.0	58.2	58.4	58.4	58.4	58.5	58.5
GE 16000		46.8	50.3	55.2	56.3	56.7	57.2	57.8	57.8	58.1	58.4	58.5	58.5	58.5	58.6	58.6
GE 14000		47.2	50.8	55.7	56.8	57.1	57.7	58.2	58.2	58.6	58.8	58.9	58.9	58.9	59.0	59.0
GE 12000		48.0	51.7	56.7	57.8	58.2	58.8	59.4	59.4	59.7	59.9	60.0	60.0	60.0	60.1	60.1
GE 10000		51.9	56.1	61.1	62.4	62.8	63.4	63.9	63.9	64.3	64.5	64.6	64.6	64.6	64.7	64.7
GE 9000		52.9	57.1	62.1	63.4	63.9	64.5	65.0	65.0	65.4	65.6	65.7	65.7	65.7	65.8	65.8
GE 8000		57.0	61.5	66.8	68.0	68.6	69.4	69.9	69.9	70.3	70.5	70.6	70.6	70.6	70.7	70.7
GE 7000		58.4	62.9	68.4	69.6	70.2	70.9	71.5	71.5	71.8	72.0	72.2	72.2	72.2	72.3	72.3
GE 6000		58.9	63.6	69.2	70.4	70.9	71.7	72.3	72.3	72.6	72.8	72.9	72.9	72.9	73.1	73.1
GE 5000		62.0	66.7	72.8	74.1	74.6	75.4	75.9	76.1	76.4	76.6	76.7	76.7	76.7	76.8	76.8
GE 4500		65.1	69.8	77.2	78.6	79.5	80.3	81.3	81.4	81.7	82.0	82.1	82.1	82.1	82.2	82.2
GE 4000		68.8	73.5	81.7	83.2	84.2	85.4	86.4	86.6	87.0	87.2	87.3	87.3	87.3	87.4	87.4
GE 3500		70.3	74.9	83.5	85.0	86.0	87.4	88.4	88.6	89.0	89.2	89.3	89.3	89.3	89.4	89.4
GE 3000		71.8	76.9	85.7	87.2	88.2	89.9	90.9	91.3	92.1	92.3	92.4	92.4	92.4	92.5	92.5
GE 2500		72.5	77.7	87.0	88.4	89.4	91.5	92.5	93.0	93.8	94.0	94.1	94.1	94.1	94.2	94.2
GE 2000		73.4	78.6	88.4	90.1	91.2	93.5	94.7	95.1	95.9	96.1	96.2	96.2	96.2	96.3	96.3
GE 1800		73.5	79.0	88.8	90.4	91.8	94.1	95.2	95.7	96.4	96.7	96.8	96.8	96.8	96.9	96.9
GE 1500		74.1	79.6	89.6	91.3	92.7	95.2	96.3	96.8	97.6	97.8	97.9	97.9	97.9	98.0	98.0
GE 1200		74.2	79.8	90.0	91.8	93.1	95.7	96.8	97.2	98.0	98.2	98.3	98.3	98.3	98.4	98.4
GE 1000		74.3	80.0	90.2	92.0	93.3	96.0	97.1	97.6	98.3	98.6	98.7	98.8	98.8	98.9	98.9
GE 900		74.4	80.2	90.4	92.2	93.5	96.2	97.3	97.8	98.6	98.8	98.9	99.0	99.0	99.1	99.1
GE 800		74.4	80.2	90.4	92.4	93.8	96.4	97.6	98.0	98.8	99.0	99.1	99.2	99.2	99.3	99.3
GE 700		74.4	80.2	90.5	92.8	94.1	97.1	98.2	98.7	99.4	99.7	99.8	99.9	99.9	100.0	100.0
GE 600		74.4	80.2	90.5	92.8	94.1	97.1	98.2	98.7	99.4	99.7	99.8	99.9	99.9	100.0	100.0
GE 500		74.4	80.2	90.5	92.8	94.1	97.1	98.2	98.7	99.4	99.7	99.8	99.9	99.9	100.0	100.0
GE 400		74.4	80.2	90.5	92.8	94.1	97.1	98.2	98.7	99.4	99.7	99.8	99.9	99.9	100.0	100.0
GE 300		74.4	80.2	90.5	92.8	94.1	97.1	98.2	98.7	99.4	99.7	99.8	99.9	99.9	100.0	100.0
GE 200		74.4	80.2	90.5	92.8	94.1	97.1	98.2	98.7	99.4	99.7	99.8	99.9	99.9	100.0	100.0
GE 100		74.4	80.2	90.5	92.8	94.1	97.1	98.2	98.7	99.4	99.7	99.8	99.9	99.9	100.0	100.0
GE 0		74.4	80.2	90.5	92.8	94.1	97.1	98.2	98.7	99.4	99.7	99.8	99.9	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 898

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: JUN HOURS(LST): ALL

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GE 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		29.6	31.5	35.0	36.6	37.0	37.7	38.3	38.3	38.6	38.7	38.8	38.9	39.1	39.1	39.4
GE 20000		34.4	36.6	40.5	42.1	42.5	43.3	44.0	44.0	44.4	44.4	44.5	44.6	44.8	44.9	45.3
GE 18000		35.5	37.8	41.7	43.3	43.7	44.5	45.2	45.2	45.6	45.7	45.8	45.9	46.1	46.2	46.6
GE 16000		35.6	37.8	41.7	43.4	43.8	44.6	45.3	45.3	45.7	45.8	45.9	45.9	46.2	46.3	46.6
GE 14000		35.8	38.0	42.0	43.6	44.1	44.9	45.5	45.6	46.0	46.0	46.1	46.2	46.4	46.5	46.9
GE 12000		36.4	38.8	42.8	44.5	44.9	45.8	46.4	46.5	46.9	46.9	47.0	47.1	47.3	47.4	47.8
GE 10000		39.0	41.6	45.8	47.5	48.0	48.9	49.5	49.6	50.0	50.0	50.1	50.2	50.5	50.6	51.0
GE 9000		40.0	42.6	46.9	48.6	49.1	50.0	50.7	50.7	51.1	51.2	51.3	51.4	51.7	51.8	52.2
GE 8000		44.0	46.9	52.0	53.9	54.5	55.5	56.3	56.3	56.7	56.8	56.9	57.0	57.3	57.5	57.8
GE 7000		46.2	49.2	54.8	56.9	57.4	58.6	59.4	59.5	59.9	60.0	60.1	60.2	60.5	60.7	61.1
GE 6000		46.8	49.9	55.5	57.6	58.2	59.4	60.2	60.3	60.7	60.8	60.9	61.0	61.3	61.4	61.9
GE 5000		49.9	53.1	59.2	61.4	61.9	63.1	64.0	64.1	64.5	64.6	64.8	64.9	65.3	65.4	65.8
GE 4500		52.4	55.8	62.2	64.6	65.3	66.7	67.6	67.7	68.3	68.4	68.6	68.7	69.0	69.2	69.6
GE 4000		58.1	61.7	68.8	71.5	72.3	73.8	74.9	75.0	75.6	75.7	75.9	76.0	76.4	76.5	76.9
GE 3500		60.9	64.6	72.1	74.8	75.6	77.3	78.4	78.5	79.1	79.2	79.4	79.5	79.9	80.0	80.4
GE 3000		66.5	70.5	78.8	81.8	82.7	84.6	85.8	86.0	86.7	86.8	87.0	87.1	87.5	87.6	88.0
GE 2500		67.8	72.1	80.7	83.9	84.8	86.8	88.0	88.2	89.0	89.1	89.3	89.4	89.8	89.9	90.3
GE 2000		69.6	74.0	83.1	86.3	87.3	89.5	90.7	90.9	91.8	91.9	92.1	92.2	92.6	92.7	93.2
GE 1800		69.9	74.4	83.7	87.0	88.0	90.2	91.4	91.6	92.5	92.6	92.8	92.9	93.3	93.4	93.9
GE 1500		70.8	75.4	85.0	88.4	89.4	91.8	93.0	93.3	94.1	94.3	94.5	94.6	95.0	95.1	95.6
GE 1200		71.4	76.1	85.9	89.5	90.6	93.0	94.2	94.5	95.4	95.6	95.8	95.9	96.3	96.4	96.9
GE 1000		71.5	76.3	86.3	90.2	91.3	93.8	95.1	95.4	96.3	96.5	96.7	96.9	97.2	97.4	97.8
GE 900		71.6	76.4	86.5	90.4	91.6	94.1	95.4	95.7	96.7	96.9	97.1	97.2	97.6	97.7	98.2
GE 800		71.6	76.4	86.6	90.6	91.8	94.4	95.7	96.0	97.0	97.2	97.4	97.5	97.9	98.1	98.5
GE 700		71.6	76.5	86.6	90.8	92.0	94.7	96.0	96.4	97.4	97.6	97.8	98.0	98.3	98.5	98.9
GE 600		71.7	76.6	86.8	91.0	92.2	95.0	96.4	96.7	97.7	97.9	98.2	98.3	98.7	98.8	99.3
GE 500		71.7	76.6	86.8	91.0	92.2	95.0	96.4	96.7	97.8	98.0	98.2	98.3	98.8	98.9	99.5
GE 400		71.7	76.6	86.8	91.0	92.2	95.0	96.4	96.7	97.8	98.0	98.3	98.4	98.8	99.0	99.5
GE 300		71.7	76.6	86.8	91.0	92.2	95.0	96.4	96.8	97.8	98.0	98.3	98.4	98.9	99.0	99.6
GE 200		71.7	76.6	86.8	91.0	92.2	95.0	96.4	96.8	97.8	98.0	98.3	98.4	98.9	99.1	99.7
GE 100		71.7	76.6	86.8	91.0	92.2	95.0	96.4	96.8	97.8	98.0	98.3	98.4	98.9	99.1	99.8
GE 0		71.7	76.6	86.8	91.1	92.3	95.2	96.5	96.8	97.8	98.0	98.3	98.5	98.9	99.1	100.0

TOTAL NUMBER OF OBSERVATIONS: 7193

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: JUL HOURS (LST): 0000-0200

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	30.4	36.5	45.3	48.3	48.4	50.8	51.8	51.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.9
GE 20000	32.3	38.7	48.3	51.5	51.6	54.0	55.1	55.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.2
GE 18000	32.7	39.2	48.7	51.9	52.1	54.4	55.5	55.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.6
GE 16000	32.7	39.2	48.7	51.9	52.1	54.4	55.5	55.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.6
GE 14000	32.7	39.2	48.7	51.9	52.1	54.4	55.5	55.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.6
GE 12000	32.7	39.2	48.9	52.2	52.3	54.7	55.7	55.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.8
GE 10000	35.4	41.9	51.6	55.4	55.6	58.2	59.3	59.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.4
GE 9000	36.3	42.9	52.9	56.7	56.9	59.5	60.6	60.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.7
GE 8000	41.1	47.9	59.3	63.5	64.0	66.8	67.9	67.9	68.8	68.8	68.8	68.8	68.9	68.9	68.9	69.0
GE 7000	44.2	51.0	63.7	68.2	68.8	71.8	72.8	72.8	73.8	73.8	73.8	73.9	73.9	73.9	73.9	74.0
GE 6000	44.4	51.2	64.4	69.0	69.7	72.6	73.7	73.7	74.7	74.7	74.7	74.8	74.8	74.8	74.8	74.9
GE 5000	47.5	54.5	68.3	73.1	73.9	76.8	78.2	78.2	79.2	79.2	79.2	79.3	79.3	79.4	79.5	
GE 4500	48.7	56.0	70.1	75.1	76.0	79.2	80.8	80.8	81.8	81.8	81.8	81.9	81.9	82.1	82.3	
GE 4000	50.6	58.7	73.9	79.1	80.0	83.8	85.4	85.4	86.4	86.4	86.4	86.5	86.5	86.7	86.8	
GE 3500	51.6	59.7	75.1	80.3	81.2	85.1	86.9	86.9	87.9	87.9	87.9	88.0	88.0	88.2	88.3	
GE 3000	53.2	62.4	78.2	83.4	84.4	88.6	90.7	90.7	91.7	91.7	91.7	91.8	91.8	92.0	92.1	
GE 2500	53.7	62.9	79.1	84.3	85.3	89.7	91.8	91.8	92.7	92.7	92.7	92.9	92.9	93.1	93.2	
GE 2000	55.2	64.4	81.3	86.5	87.4	92.1	94.2	94.2	95.1	95.1	95.1	95.2	95.2	95.5	95.6	
GE 1800	55.4	64.6	81.5	86.9	87.9	92.6	94.7	94.7	95.7	95.7	95.7	95.8	95.8	96.0	96.1	
GE 1600	55.6	65.0	82.5	88.0	89.0	93.7	96.1	96.1	97.1	97.1	97.1	97.2	97.2	97.4	97.5	
GE 1200	56.1	65.3	83.0	88.5	89.5	94.5	96.9	96.9	97.8	97.8	97.8	97.9	97.9	98.2	98.3	
GE 1000	56.1	65.3	83.0	88.5	89.5	94.5	96.9	96.9	97.8	97.8	97.8	97.9	97.9	98.2	98.3	
GE 900	56.1	65.3	83.2	88.7	89.7	94.9	97.3	97.3	98.3	98.3	98.3	98.4	98.4	98.6	98.7	
GE 800	56.1	65.3	83.3	88.9	89.8	95.0	97.4	97.5	98.5	98.5	98.5	98.6	98.6	98.8	98.9	
GE 700	56.1	65.3	83.3	88.9	89.8	95.0	97.4	97.5	98.5	98.5	98.5	98.6	98.6	98.8	98.9	
GE 600	56.1	65.3	83.5	89.1	90.2	95.3	97.7	97.8	98.8	99.0	99.0	99.1	99.1	99.4	99.5	
GE 500	56.1	65.3	83.5	89.1	90.2	95.3	97.7	97.8	98.8	99.0	99.0	99.1	99.1	99.4	99.5	
GE 400	56.1	65.3	83.5	89.1	90.2	95.3	97.7	97.8	98.8	99.0	99.0	99.1	99.1	99.4	99.5	
GE 300	56.1	65.3	83.5	89.1	90.2	95.3	97.7	97.8	98.8	99.0	99.0	99.1	99.1	99.4	99.5	
GE 200	56.1	65.3	83.5	89.1	90.2	95.3	97.7	97.8	98.8	99.0	99.0	99.1	99.1	99.6	99.9	
GE 100	56.1	65.3	83.5	89.1	90.2	95.3	97.7	97.8	98.8	99.0	99.0	99.1	99.1	99.6	100.0	
GE 0	56.1	65.3	83.5	89.1	90.2	95.3	97.7	97.8	98.8	99.0	99.0	99.1	99.1	99.6	100.0	

TOTAL NUMBER OF OBSERVATIONS: 929

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: JUL HOURS(LST): 0300-0500

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		11.0	16.6	23.9	29.5	30.1	33.1	35.1	35.4	37.8	38.5	39.0	40.0	41.0	41.7	42.7
GE 20000		12.0	18.0	26.1	32.0	32.9	36.1	38.3	38.6	41.1	41.9	42.3	43.5	44.6	45.2	46.3
GE 18000		12.0	18.0	26.2	32.1	33.0	36.3	38.4	38.7	41.2	42.0	42.4	43.6	44.7	45.3	46.4
GE 16000		12.0	18.0	26.2	32.1	33.0	36.3	38.4	38.7	41.2	42.0	42.4	43.6	44.7	45.3	46.4
GE 14000		12.0	18.0	26.2	32.1	33.0	36.3	38.4	38.7	41.2	42.0	42.4	43.6	44.7	45.3	46.4
GE 12000		12.4	18.4	27.1	33.0	34.0	37.2	39.4	39.7	42.2	43.0	43.4	44.6	45.7	46.3	47.4
GE 10000		15.0	21.6	30.7	37.3	38.4	41.9	44.3	44.6	47.1	47.8	48.3	49.5	50.5	51.2	52.3
GE 9000		16.0	22.7	32.1	38.9	39.9	43.5	45.9	46.2	48.7	49.5	50.0	51.2	52.3	52.9	54.0
GE 8000		19.0	27.2	37.8	45.0	46.3	50.8	53.8	54.3	57.1	58.0	58.5	59.7	60.8	61.5	62.6
GE 7000		21.0	29.7	41.5	48.7	50.2	54.9	58.0	58.5	61.5	62.3	62.9	64.2	65.4	66.1	67.3
GE 6000		21.0	29.7	41.6	48.9	50.4	55.1	58.2	58.8	61.7	62.6	63.1	64.4	65.6	66.3	67.5
GE 5000		22.8	31.5	44.2	51.7	53.2	58.1	61.5	62.0	65.0	65.9	66.5	67.9	69.0	69.8	71.1
GE 4500		23.5	32.4	46.1	54.1	55.6	60.7	64.1	64.6	67.6	68.5	69.0	70.5	71.6	72.4	73.7
GE 4000		26.6	35.7	50.5	59.4	61.3	66.5	70.1	70.7	73.9	74.8	75.3	76.7	77.9	78.7	80.0
GE 3500		27.3	36.6	51.6	60.5	62.3	67.5	71.5	71.9	75.2	76.1	76.6	78.0	79.2	80.0	81.3
GE 3000		28.9	39.3	54.7	64.1	65.9	71.3	75.4	76.1	79.5	80.4	81.0	82.4	83.5	84.3	85.6
GE 2500		29.1	39.6	55.6	65.2	67.1	72.7	76.8	77.5	81.0	81.8	82.4	83.8	85.0	85.7	87.0
GE 2000		30.4	41.2	57.7	67.5	69.7	75.4	79.7	80.3	83.8	84.6	85.2	86.6	87.8	88.5	89.8
GE 1800		30.7	41.6	58.1	68.0	70.1	75.9	80.1	80.7	84.2	85.1	85.6	87.0	88.2	89.0	90.3
GE 1500		30.8	41.7	58.5	68.7	70.9	76.7	81.4	82.0	85.7	86.6	87.1	88.5	89.7	90.5	91.8
GE 1200		31.2	42.1	59.7	70.1	72.3	78.5	83.2	83.9	87.7	88.5	89.1	90.5	91.7	92.4	93.7
GE 1000		31.3	42.4	60.6	71.1	73.3	79.5	84.4	85.1	89.0	89.8	90.4	91.9	93.1	93.8	95.1
GE 900		31.3	42.4	60.6	71.2	73.4	79.9	84.8	85.5	89.4	90.3	90.8	92.4	93.6	94.4	95.7
GE 800		31.3	42.4	60.7	71.5	73.7	80.4	85.4	86.0	89.9	90.8	91.3	93.0	94.2	94.9	96.2
GE 700		31.3	42.4	60.7	71.6	73.6	80.5	85.5	86.1	90.2	91.0	91.6	93.2	94.6	95.3	96.6
GE 600		31.3	42.4	60.7	71.8	73.9	80.6	86.3	86.9	90.9	91.8	92.3	93.9	95.3	96.1	97.4
GE 500		31.3	42.4	60.7	71.8	74.0	81.0	86.4	87.0	91.1	92.0	92.6	94.3	95.7	96.4	97.7
GE 400		31.3	42.4	60.7	71.8	74.0	81.2	86.6	87.2	91.6	92.4	93.1	94.7	96.1	96.9	98.2
GE 300		31.3	42.4	60.7	71.8	74.0	81.2	86.6	87.2	91.6	92.4	93.1	94.7	96.3	97.1	98.5
GE 200		31.3	42.4	60.7	71.8	74.0	81.4	86.8	87.4	91.8	92.6	93.3	94.9	96.5	97.3	99.2
GE 100		31.3	42.4	60.7	71.8	74.0	81.4	86.8	87.4	91.8	92.6	93.3	94.9	96.5	97.5	99.8
GE 0		31.3	42.4	60.7	71.8	74.0	81.4	86.8	87.4	91.8	92.6	93.3	94.9	96.5	97.5	100.0

TOTAL NUMBER OF OBSERVATIONS: 924

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: JUL HOURS(LST): 0600-0800

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	13.2	16.5	26.5	30.8	32.0	34.0	35.2	35.3	36.3	36.6	36.7	37.2	37.6	38.1	38.7	
GE 20000	14.1	18.1	28.9	33.9	35.2	37.1	38.4	38.6	39.8	40.2	40.3	40.8	41.1	41.9	42.5	
GE 18000	14.1	18.1	28.9	33.9	35.2	37.1	38.4	38.6	39.8	40.2	40.3	40.8	41.1	41.9	42.5	
GE 16000	14.1	18.1	28.9	33.9	35.2	37.1	38.4	38.6	39.8	40.2	40.3	40.8	41.1	41.9	42.5	
GE 14000	14.2	18.2	29.2	34.2	35.5	37.4	38.7	39.0	40.2	40.5	40.6	41.1	41.5	42.2	42.9	
GE 12000	14.6	18.6	29.8	35.0	36.4	38.3	39.6	39.8	41.0	41.3	41.5	42.0	42.3	43.1	43.7	
GE 10000	16.7	21.1	33.4	39.1	40.5	42.6	43.9	44.3	45.5	45.8	45.9	46.4	46.8	47.5	48.2	
GE 9000	16.9	21.4	34.1	39.8	41.2	43.5	44.9	45.2	46.4	46.8	47.0	47.5	47.8	48.6	49.2	
GE 8000	21.4	26.8	39.8	46.0	47.5	50.1	51.6	52.1	53.9	54.2	54.4	55.0	55.5	56.3	56.9	
GE 7000	23.5	29.4	43.3	50.0	51.5	54.2	55.8	56.3	58.4	58.8	59.0	59.5	60.1	60.8	61.5	
GE 6000	23.6	29.7	43.8	50.8	52.3	55.0	56.6	57.0	59.2	59.5	59.7	60.3	60.8	61.6	62.2	
GE 5000	25.8	32.0	47.0	54.4	56.1	59.3	60.9	61.4	63.6	64.0	64.2	64.7	65.3	66.0	66.7	
GE 4500	26.2	32.8	48.5	56.2	57.9	61.1	62.8	63.2	65.5	65.8	66.0	66.6	67.1	67.9	68.5	
GE 4000	28.9	35.7	52.3	60.5	62.4	66.3	68.4	68.9	71.2	71.5	71.8	72.3	72.8	73.6	74.2	
GE 3500	29.7	36.5	53.8	62.3	64.3	68.2	70.2	70.8	73.2	73.5	73.7	74.2	74.8	75.5	76.2	
GE 3000	32.1	39.7	57.7	67.3	69.3	73.4	75.9	76.5	79.2	79.5	79.8	80.3	80.8	81.6	82.3	
GE 2500	32.6	40.2	59.2	68.8	70.9	75.0	77.6	78.2	81.0	81.3	81.5	82.0	82.6	83.3	84.0	
GE 2000	34.2	42.1	61.5	71.4	73.8	78.2	80.8	81.6	84.3	84.6	84.8	85.4	85.9	86.7	87.3	
GE 1800	34.5	42.4	62.1	72.2	74.6	79.0	81.6	82.4	85.1	85.4	85.6	86.1	86.7	87.4	88.1	
GE 1500	35.0	43.5	63.6	73.8	76.3	81.1	83.9	84.6	87.4	87.8	88.0	88.5	89.1	89.8	90.5	
GE 1200	35.4	43.9	64.7	75.3	77.8	82.6	85.6	86.5	89.3	89.6	89.8	90.4	90.9	91.7	92.3	
GE 1000	35.4	44.2	65.3	76.4	78.9	83.9	87.1	88.0	90.9	91.2	91.5	92.0	92.5	93.4	94.0	
GE 900	35.4	44.3	65.4	76.5	79.2	84.6	88.1	89.0	91.9	92.2	92.4	93.0	93.5	94.4	95.0	
GE 800	35.6	44.5	66.1	77.4	80.3	85.8	89.3	90.2	93.1	93.4	93.6	94.2	94.7	95.6	96.2	
GE 700	35.6	44.5	66.1	77.4	80.4	86.0	89.5	90.4	93.3	93.7	93.9	94.5	95.0	95.9	96.5	
GE 600	35.6	44.5	66.1	77.5	80.6	86.6	90.2	91.0	93.9	94.4	94.6	95.1	95.7	96.5	97.2	
GE 500	35.6	44.5	66.1	77.5	80.7	86.7	90.3	91.1	94.2	94.6	94.9	95.5	96.0	96.9	97.5	
GE 400	35.6	44.5	66.1	77.5	80.8	86.9	90.5	91.3	94.4	94.9	95.2	95.8	96.3	97.3	97.9	
GE 300	35.6	44.5	66.1	77.5	81.0	87.1	90.7	91.6	94.6	95.1	95.6	96.1	96.8	97.7	98.4	
GE 200	35.6	44.5	66.1	77.5	81.0	87.1	90.7	91.6	94.7	95.2	95.7	96.3	97.2	98.4	99.4	
GE 100	35.6	44.5	66.1	77.5	81.0	87.1	90.7	91.6	94.7	95.2	95.7	96.3	97.2	98.4	100.0	
GE 0	35.6	44.5	66.1	77.5	81.0	87.1	90.7	91.6	94.7	95.2	95.7	96.3	97.2	98.4	100.0	

TOTAL NUMBER OF OBSERVATIONS: 924

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: JUL HOURS(LST): 0900-1100

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		70.6	33.0	36.8	37.0	37.0	37.1	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2
GE 20000		35.2	38.0	42.2	42.4	42.4	42.5	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
GE 18000		35.5	38.5	43.1	43.3	43.3	43.4	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5
GE 16000		35.5	38.5	43.1	43.3	43.3	43.4	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5
GE 14000		35.9	39.0	43.5	43.7	43.7	43.8	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
GE 12000		36.8	39.8	44.4	44.6	44.6	44.7	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
GE 10000		38.4	41.5	46.6	46.9	46.9	47.0	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
GE 9000		39.3	42.3	47.6	47.8	47.8	47.9	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1
GE 8000		43.3	46.5	52.6	52.9	52.9	53.0	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1
GE 7000		46.9	50.4	57.0	57.5	57.6	57.9	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
GE 6000		47.7	51.4	58.1	58.7	58.7	59.0	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
GE 5000		50.4	54.2	61.6	62.2	62.2	62.6	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
GE 4500		51.4	55.2	63.1	63.7	63.7	64.1	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
GE 4000		54.3	58.1	67.3	68.4	68.5	68.9	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
GE 3500		56.8	60.7	70.2	71.3	71.4	72.0	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
GE 3000		64.1	68.9	79.8	81.2	81.6	82.4	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
GE 2500		66.7	71.6	82.8	84.3	84.7	85.5	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
GE 2000		69.6	75.0	87.9	90.2	90.7	91.5	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
GE 1800		70.0	75.4	88.4	90.9	91.5	92.3	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
GE 1600		71.6	77.2	90.6	93.8	94.6	95.5	96.0	96.0	96.2	96.2	96.2	96.2	96.2	96.2	96.2
GE 1200		72.1	77.7	91.9	95.1	95.9	96.8	97.3	97.3	97.5	97.5	97.5	97.5	97.5	97.5	97.5
GE 1000		72.4	78.1	92.6	95.9	96.6	97.6	98.2	98.2	98.4	98.4	98.4	98.4	98.4	98.4	98.4
GE 900		72.4	78.1	92.6	96.3	97.2	98.3	98.8	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0
GE 800		72.6	78.4	93.2	96.9	97.7	98.8	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 700		72.6	78.4	93.2	96.9	97.7	98.8	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 600		72.8	78.6	93.6	97.3	98.2	99.2	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 500		72.8	78.6	93.6	97.3	98.2	99.2	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400		72.8	78.6	93.6	97.3	98.2	99.2	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300		72.8	78.6	93.6	97.3	98.2	99.2	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200		72.8	78.6	93.6	97.3	98.2	99.2	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100		72.8	78.6	93.6	97.3	98.2	99.2	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 0		72.8	78.6	93.6	97.3	98.2	99.2	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 924

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10687O STATION NAME: GRAFENWOHR AAF GER PERIOD OF RECORD: 77-86
MONTH: JUL HOURS(LST): 1200-1400

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		31.1	31.8	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1
GE 20000		36.8	37.6	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9
GE 18000		36.9	37.7	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0
GE 16000		36.9	37.7	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0
GE 14000		36.9	37.7	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0
GE 12000		37.9	38.7	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
GE 10000		40.2	41.0	41.3	41.3	41.3	41.3	41.3	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5
GE 9000		41.2	42.1	42.4	42.4	42.4	42.4	42.4	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5
GE 8000		46.3	47.3	48.3	48.3	48.3	48.3	48.3	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
GE 7000		49.6	51.1	52.3	52.3	52.3	52.3	52.3	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
GE 6000		50.2	51.7	52.9	52.9	52.9	52.9	52.9	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
GE 5000		54.9	56.4	57.8	57.9	57.9	57.9	57.9	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
GE 4500		57.5	59.1	60.5	60.6	60.6	60.6	60.6	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
GE 4000		64.7	66.6	68.9	69.0	69.0	69.2	69.2	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
GE 3500		70.1	72.3	74.8	75.0	75.0	75.3	75.3	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
GE 3000		81.3	84.3	87.8	88.1	88.1	88.4	88.4	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
GE 2500		82.6	85.7	90.2	90.5	90.5	90.8	90.8	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
GE 2000		84.4	88.0	93.2	93.5	93.5	93.8	94.0	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
GE 1800		84.5	88.1	94.0	94.4	94.4	94.7	94.9	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
GE 1500		85.4	89.2	96.1	96.6	96.6	97.2	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
GE 1200		85.5	89.4	96.6	97.3	97.3	97.8	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
GE 1000		85.7	89.6	97.1	97.9	97.9	98.5	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
GE 900		85.7	89.6	97.2	98.2	98.2	98.7	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 800		85.9	89.8	97.7	98.7	98.7	99.2	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 700		85.9	89.8	97.7	98.7	98.7	99.2	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 600		85.9	89.8	97.8	98.8	98.8	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 500		85.9	89.8	97.8	98.8	98.8	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400		85.9	89.8	97.8	98.8	98.8	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300		85.9	89.8	97.8	98.8	98.8	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200		85.9	89.8	97.8	98.8	98.8	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100		85.9	89.8	97.8	98.8	98.8	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 0		85.9	89.8	97.8	98.8	98.8	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 924

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10687O STATION NAME: GRAFENWOHR AAF GER PERIOD OF RECORD: 77-86
MONTH: JUL HOURS(LST): 1500-1700

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		33.5	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7
GE 20000		40.0	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2
GE 18000		40.7	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8
GE 16000		40.9	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0
GE 14000		41.1	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2
GE 12000		41.7	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8
GE 10000		46.0	46.2	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3
GE 9000		46.8	47.2	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
GE 8000		54.0	54.7	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6
GE 7000		56.3	57.0	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
GE 6000		56.5	57.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
GE 5000		62.3	63.2	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
GE 4500		65.2	66.2	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9
GE 4000		74.6	75.8	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
GE 3500		78.2	79.7	82.8	82.8	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
GE 3000		86.0	88.2	92.5	92.6	92.7	92.9	92.9	92.9	92.9	92.9	92.9	93.0	93.0	93.0	93.0
GE 2500		87.3	89.9	94.7	94.8	94.9	95.0	95.0	95.0	95.0	95.0	95.0	95.1	95.1	95.1	95.1
GE 2000		88.7	91.6	96.4	96.5	96.6	97.0	97.0	97.0	97.0	97.0	97.0	97.1	97.1	97.1	97.1
GE 1800		88.7	91.6	96.5	96.6	96.8	97.1	97.1	97.1	97.1	97.1	97.1	97.2	97.2	97.2	97.2
GE 1500		89.5	92.5	97.9	98.1	98.2	98.6	98.6	98.6	98.6	98.6	98.6	98.7	98.7	98.7	98.7
GE 1200		89.7	92.9	98.4	98.6	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5
GE 1000		89.7	92.9	98.8	99.0	99.1	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 900		89.7	92.9	98.8	99.0	99.1	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 800		89.7	92.9	98.8	99.0	99.1	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 700		89.7	92.9	98.8	99.0	99.1	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 600		89.7	92.9	98.8	99.0	99.1	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 500		89.7	92.9	98.8	99.0	99.1	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 400		89.7	92.9	98.8	99.0	99.1	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 300		89.7	92.9	98.8	99.0	99.1	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 200		89.7	92.9	98.8	99.0	99.1	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 100		89.7	92.9	98.8	99.0	99.1	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 0		89.7	92.9	98.8	99.0	99.1	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 924

GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
SAFETAC FROM HOURLY OBSERVATIONS
AIR WEATHER SERVICE/MAC

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER PERIOD OF RECORD: 77-86
MONTH: JUL HOURS(LST): 1800-2000

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	45.6	45.8	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3
GE 20000	51.5	51.8	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
GE 18000	52.1	52.4	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
GE 16000	52.1	52.4	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
GE 14000	52.2	52.5	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
GE 12000	52.7	53.1	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7
GE 10000	56.5	56.9	57.6	57.6	57.6	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
GE 9000	57.4	57.9	58.6	58.6	58.6	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
GE 8000	63.2	63.9	65.7	66.1	66.1	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2
GE 7000	66.1	67.2	69.4	69.8	69.8	70.2	70.2	70.2	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
GE 6000	67.1	68.3	70.5	70.9	70.9	71.3	71.3	71.3	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
GE 5000	72.1	73.4	75.8	76.2	76.2	76.6	76.6	76.6	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
GE 4500	74.3	75.6	78.3	78.7	79.6	79.3	79.3	79.3	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
GE 4000	80.6	82.2	85.2	85.7	85.9	86.2	86.2	86.2	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
GE 3500	83.5	85.2	88.6	89.0	89.3	89.7	89.7	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
GE 3000	87.6	89.6	93.6	94.4	94.6	95.2	95.2	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
GE 2500	88.1	90.2	94.8	95.6	95.8	96.5	96.5	96.5	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
GE 2000	88.7	91.0	95.7	96.4	96.6	97.4	97.4	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
GE 1800	88.7	91.0	95.8	96.5	96.7	97.5	97.5	97.5	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
GE 1500	89.4	91.9	96.9	97.7	97.9	98.7	99.0	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 1200	89.4	91.9	96.9	97.7	97.9	98.7	99.0	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 1000	89.4	91.9	97.2	98.0	98.3	99.0	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 900	89.4	91.9	97.2	98.2	98.4	99.1	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 800	89.4	91.9	97.2	98.2	98.4	99.1	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 700	89.4	91.9	97.2	98.2	98.4	99.1	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 600	89.4	91.9	97.2	98.2	98.4	99.1	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 500	89.4	91.9	97.2	98.2	98.4	99.1	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400	89.4	91.9	97.2	98.2	98.4	99.1	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300	89.4	91.9	97.2	98.2	98.4	99.1	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	89.4	91.9	97.2	98.2	98.4	99.1	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	89.4	91.9	97.2	98.2	98.4	99.1	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 0	89.4	91.9	97.2	98.2	98.4	99.1	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 922

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: JUL HOURS(LST): 2100-2300

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		41.2	44.9	50.2	50.8	51.0	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.2	52.2
GE 20000		44.3	48.4	54.2	54.9	55.1	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.4	56.4
GE 18000		44.9	49.3	55.2	55.9	56.1	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.4	57.4
GE 16000		44.9	49.3	55.2	55.9	56.1	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.4	57.4
GE 14000		45.0	49.5	55.3	56.0	56.2	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.5	57.5
GE 12000		45.0	49.7	55.5	56.2	56.4	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.7	57.7
GE 10000		47.0	51.7	57.6	58.5	58.7	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.1	60.1
GE 9000		47.9	52.7	58.9	59.8	60.0	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.4	61.4
GE 8000		51.5	56.7	63.1	64.3	64.6	66.4	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.6	66.6
GE 7000		54.4	60.0	67.4	68.5	68.9	70.7	70.8	70.8	70.9	70.9	70.9	71.0	71.0	71.1	71.1
GE 6000		55.3	60.8	68.4	69.6	70.0	71.8	71.9	71.9	72.0	72.0	72.0	72.1	72.1	72.2	72.2
GE 5000		60.4	66.6	74.4	75.6	76.2	78.1	78.6	78.6	78.7	78.7	78.7	78.9	78.9	79.0	79.0
GE 4500		61.9	68.2	76.2	77.4	78.2	80.0	80.6	80.6	80.7	80.7	80.7	80.8	80.8	80.9	80.9
GE 4000		64.6	71.5	80.0	81.2	82.1	84.1	84.6	84.6	84.7	84.7	84.7	84.8	84.8	84.9	84.9
GE 3500		66.4	73.3	82.6	83.9	84.8	86.8	87.7	87.9	88.0	88.0	88.0	88.1	88.1	88.2	88.2
GE 3000		69.6	77.2	87.4	88.7	89.7	92.0	93.0	93.2	93.3	93.3	93.3	93.4	93.4	93.5	93.6
GE 2500		70.3	78.1	88.8	90.2	91.3	93.8	95.0	95.2	95.3	95.3	95.3	95.4	95.4	95.6	95.7
GE 2000		71.3	79.1	90.2	91.6	92.7	95.2	96.4	96.6	96.7	96.7	96.7	96.9	96.9	97.0	97.1
GE 1800		71.3	79.1	90.3	91.8	92.8	95.3	96.5	96.7	96.9	96.9	96.9	97.0	97.0	97.1	97.2
GE 1500		71.6	79.6	91.5	93.2	94.3	96.7	98.3	98.5	98.6	98.6	98.6	98.7	98.7	98.8	98.9
GE 1200		71.7	79.8	92.0	93.6	94.7	97.3	98.8	99.0	99.1	99.1	99.1	99.2	99.2	99.3	99.5
GE 1000		71.7	79.8	92.0	93.7	94.8	97.5	99.0	99.2	99.3	99.3	99.3	99.5	99.5	99.6	99.7
GE 900		71.7	79.8	92.0	93.8	94.9	97.6	99.1	99.3	99.5	99.5	99.5	99.6	99.6	99.7	99.8
GE 800		71.7	79.8	92.0	93.8	94.9	97.6	99.1	99.3	99.5	99.5	99.5	99.6	99.6	99.7	99.8
GE 700		71.7	79.8	92.0	93.8	94.9	97.6	99.1	99.3	99.5	99.5	99.5	99.6	99.6	99.7	99.8
GE 600		71.7	79.8	92.1	93.9	95.0	97.7	99.2	99.5	99.6	99.6	99.6	99.7	99.7	99.8	99.9
GE 500		71.7	79.8	92.1	93.9	95.0	97.7	99.2	99.5	99.6	99.6	99.6	99.7	99.7	99.8	99.9
GE 400		71.7	79.8	92.1	93.9	95.0	97.7	99.2	99.5	99.6	99.6	99.6	99.7	99.7	99.8	99.9
GE 300		71.7	79.8	92.1	93.9	95.0	97.7	99.2	99.5	99.6	99.6	99.6	99.7	99.7	99.8	99.9
GE 200		71.7	79.8	92.1	93.9	95.0	97.7	99.2	99.5	99.6	99.6	99.6	99.7	99.7	99.8	99.9
GE 100		71.7	79.8	92.1	93.9	95.0	97.7	99.2	99.5	99.6	99.6	99.6	99.7	99.8	99.9	100.0
GE 0		71.7	79.8	92.1	93.9	95.0	97.7	99.2	99.5	99.6	99.6	99.6	99.7	99.8	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS: 922

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: JUL HOURS(LST): ALL

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	29.6	32.3	36.9	38.6	38.8	39.9	40.4	40.5	41.0	41.2	41.2	41.4	41.6	41.8	42.0	
GE 20000	33.3	36.3	41.3	43.1	43.4	44.6	45.1	45.2	45.8	45.9	46.0	46.2	46.4	46.6	46.8	
GE 18000	33.6	36.7	41.7	43.6	43.9	45.0	45.6	45.7	46.3	46.4	46.5	46.7	46.8	47.0	47.3	
GE 16000	33.6	36.8	41.7	43.6	43.9	45.0	45.6	45.7	46.3	46.4	46.5	46.7	46.9	47.1	47.3	
GE 14000	33.7	36.9	41.9	43.8	44.1	45.2	45.8	45.8	46.4	46.6	46.6	46.8	47.0	47.2	47.4	
GE 12000	34.2	37.4	42.5	44.4	44.8	45.9	46.5	46.5	47.1	47.2	47.3	47.5	47.7	47.9	48.1	
GE 10000	36.9	40.2	45.7	47.8	48.2	49.4	50.0	50.1	50.7	50.8	50.9	51.1	51.3	51.4	51.7	
GE 9000	37.7	41.1	46.8	48.9	49.3	50.5	51.2	51.2	51.8	52.0	52.1	52.3	52.4	52.6	52.9	
GE 8000	42.5	46.4	52.8	55.2	55.7	57.1	57.9	58.0	58.7	58.9	58.9	59.2	59.4	59.6	59.8	
GE 7000	45.2	49.5	56.6	59.1	59.7	61.2	62.0	62.1	62.9	63.1	63.2	63.4	63.6	63.8	64.1	
GE 6000	45.7	50.0	57.3	59.9	60.4	62.0	62.8	62.9	63.7	63.8	63.9	64.2	64.4	64.6	64.8	
GE 5000	49.5	54.0	61.7	64.5	65.1	66.6	67.6	67.8	68.6	68.7	68.8	69.1	69.3	69.5	69.8	
GE 4500	51.1	55.7	63.8	66.7	67.4	69.1	70.0	70.2	71.0	71.1	71.2	71.5	71.7	71.9	72.2	
GE 4000	55.6	60.5	69.5	72.7	73.4	75.4	76.4	76.5	77.4	77.5	77.6	77.9	78.1	78.3	78.6	
GE 3500	57.9	63.0	72.4	75.6	76.4	78.4	79.5	79.7	80.5	80.7	80.8	81.1	81.3	81.5	81.8	
GE 3000	62.9	68.7	79.0	82.5	83.3	85.5	86.7	87.0	87.9	88.0	88.1	88.4	88.6	88.8	89.1	
GE 2500	63.6	69.8	80.6	84.2	85.1	87.4	88.7	88.9	89.8	89.9	90.0	90.3	90.5	90.8	91.0	
GE 2000	65.3	71.5	83.0	86.7	87.6	90.1	91.4	91.6	92.5	92.7	92.8	93.1	93.3	93.5	93.8	
GE 1800	65.5	71.7	83.4	87.2	88.1	90.6	91.9	92.1	93.0	93.2	93.3	93.6	93.8	94.0	94.3	
GE 1500	66.1	72.6	84.7	88.7	89.7	92.3	93.6	94.1	95.1	95.2	95.3	95.6	95.8	96.0	96.3	
GE 1200	66.4	72.9	85.4	89.5	90.5	93.2	94.8	95.0	96.0	96.2	96.3	96.6	96.8	97.0	97.3	
GE 1000	66.4	73.0	85.8	90.1	91.1	93.8	95.5	95.7	96.8	96.9	97.0	97.3	97.5	97.8	98.1	
GE 900	66.4	73.0	85.9	90.2	91.3	94.1	95.9	96.1	97.1	97.3	97.4	97.7	97.9	98.2	98.4	
GE 800	66.5	73.1	86.1	90.5	91.6	94.5	96.3	96.5	97.5	97.7	97.8	98.1	98.3	98.6	98.8	
GE 700	66.5	73.1	86.1	90.6	91.6	94.5	96.3	96.5	97.6	97.8	97.8	98.2	98.4	98.6	98.9	
GE 600	66.6	73.1	86.2	90.7	91.8	94.7	96.6	96.8	97.9	98.1	98.2	98.5	98.7	99.0	99.2	
GE 500	66.6	73.1	86.2	90.7	91.8	94.8	96.6	96.9	97.9	98.1	98.3	98.6	98.8	99.1	99.3	
GE 400	66.6	73.1	86.2	90.7	91.8	94.8	96.7	96.9	98.0	98.2	98.3	98.7	98.9	99.2	99.4	
GE 300	66.6	73.1	86.2	90.7	91.8	94.9	96.7	96.9	98.1	98.3	98.4	98.7	99.0	99.2	99.5	
GE 200	66.6	73.1	86.2	90.7	91.8	94.9	96.7	97.0	98.1	98.3	98.4	98.8	99.1	99.4	99.8	
GE 100	66.6	73.1	86.2	90.7	91.8	94.9	96.7	97.0	98.1	98.3	98.4	98.8	99.1	99.4	100.0	
GE 0	66.6	73.1	86.2	90.7	91.8	94.9	96.7	97.0	98.1	98.3	98.4	98.8	99.1	99.4	100.0	

TOTAL NUMBER OF OBSERVATIONS: 7368

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: AUG HOURS(LST): 0000-0200

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		24.3	30.3	40.9	45.6	46.7	49.5	51.3	52.4	53.4	53.8	54.1	54.8	55.8	56.3	56.8
GE 20000		26.5	33.0	45.6	50.6	51.9	54.9	56.9	58.0	59.0	59.4	59.7	60.4	61.5	62.0	62.5
GE 18000		26.5	33.3	46.8	51.8	53.1	56.1	58.3	59.4	60.5	60.9	61.2	61.9	63.0	63.5	64.0
GE 16000		26.5	33.3	46.8	51.8	53.1	56.1	58.3	59.4	60.5	60.9	61.2	61.9	63.0	63.5	64.0
GE 14000		26.7	33.5	47.0	52.0	53.3	56.3	58.5	59.6	60.8	61.1	61.4	62.2	63.2	63.8	64.2
GE 12000		27.4	34.3	47.7	52.8	54.1	57.1	59.2	60.3	61.5	61.8	62.2	62.9	64.0	64.5	64.9
GE 10000		29.6	35.9	49.7	54.8	56.2	59.5	61.6	62.7	64.1	64.4	64.7	65.5	66.6	67.1	67.5
GE 9000		29.2	36.5	50.2	55.4	56.6	60.0	62.4	63.4	64.8	65.2	65.5	66.2	67.3	68.1	68.5
GE 8000		31.6	39.6	54.6	60.0	61.4	64.9	67.5	68.7	70.2	70.5	70.9	71.6	72.8	73.5	74.0
GE 7000		32.7	40.8	56.7	62.0	63.4	67.0	69.6	70.8	72.3	72.6	72.9	73.7	74.8	75.6	76.0
GE 6000		32.7	40.9	56.9	62.3	63.7	67.2	69.8	71.0	72.5	72.8	73.1	73.9	75.1	75.8	76.2
GE 5000		34.3	43.0	59.2	64.6	66.0	69.7	72.4	73.5	75.2	75.5	75.8	76.6	77.7	78.6	79.0
GE 4500		35.2	44.0	60.6	66.2	67.7	71.6	74.3	75.5	77.1	77.4	77.7	78.5	79.7	80.5	81.0
GE 4000		38.2	47.8	65.3	70.9	72.4	76.2	78.9	80.1	81.8	82.2	82.5	83.2	84.4	85.3	85.7
GE 3500		39.0	49.0	66.7	72.3	73.9	78.0	81.0	82.2	84.0	84.3	84.6	85.4	86.6	87.4	87.8
GE 3000		40.9	51.3	69.6	75.3	77.3	81.6	84.7	85.9	87.7	88.3	88.6	89.4	90.5	91.4	91.8
GE 2500		41.3	51.7	70.6	76.5	78.5	83.0	86.1	87.3	89.1	89.7	90.0	90.8	91.9	92.8	93.2
GE 2000		41.7	52.3	71.7	77.6	79.8	84.3	87.5	88.7	90.5	91.1	91.4	92.2	93.3	94.2	94.6
GE 1800		41.7	52.3	71.7	77.6	79.8	84.3	87.5	88.7	90.5	91.1	91.4	92.2	93.3	94.2	94.6
GE 1500		41.8	52.5	72.0	78.0	80.1	85.3	88.5	89.7	91.5	92.0	92.4	93.1	94.3	95.2	95.6
GE 1200		41.9	52.6	72.7	78.6	80.8	86.0	89.4	90.5	92.4	92.9	93.2	94.0	95.2	96.0	96.5
GE 1000		42.0	52.7	72.9	78.8	81.0	86.6	90.3	91.5	93.3	93.9	94.2	94.9	96.1	97.0	97.4
GE 900		42.0	52.7	73.1	79.2	81.4	87.1	90.9	92.0	93.9	94.4	94.7	95.5	96.7	97.5	98.0
GE 800		42.0	52.7	73.1	79.2	81.4	87.1	90.9	92.0	93.9	94.4	94.7	95.5	96.7	97.5	98.0
GE 700		42.0	52.7	73.2	79.4	81.5	87.3	91.1	92.3	94.1	94.6	94.9	95.7	96.9	97.7	98.2
GE 600		42.0	52.7	73.2	79.6	81.7	87.5	91.3	92.5	94.3	94.8	95.2	95.9	97.1	98.0	98.4
GE 500		42.0	52.7	73.2	79.7	81.8	87.6	91.4	92.6	94.4	94.9	95.3	96.0	97.2	98.1	98.5
GE 400		42.0	52.7	73.2	79.7	81.8	87.6	91.6	92.8	94.6	95.2	95.5	96.2	97.4	98.3	98.7
GE 300		42.0	52.7	73.2	79.7	81.8	87.6	91.6	92.8	94.6	95.2	95.5	96.2	97.4	98.3	98.7
GE 200		42.0	52.7	73.2	79.7	81.8	87.6	91.6	92.8	94.6	95.5	95.8	97.0	98.4	99.2	99.7
GE 100		42.0	52.7	73.2	79.7	81.8	87.6	91.6	92.8	94.6	95.6	95.9	97.1	98.5	99.4	99.9
GE 0		42.0	52.7	73.2	79.7	81.8	87.6	91.7	92.9	94.7	95.7	96.0	97.2	98.6	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: AUG HOURS(LST): 0300-0500

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 46	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		9.0	13.3	22.0	25.7	27.0	31.0	34.0	35.6	38.9	39.1	39.7	41.2	43.4	44.7	47.5
GE 20000		10.3	15.2	24.5	28.3	29.7	33.8	36.9	38.5	42.0	42.3	42.9	44.4	46.8	48.1	50.9
GE 18000		10.3	15.4	25.3	29.0	30.4	34.7	38.1	39.7	43.2	43.4	44.1	45.7	48.1	49.4	52.2
GE 16000		10.3	15.4	25.3	29.0	30.4	34.8	38.2	39.8	43.3	43.5	44.2	45.8	48.2	49.5	52.3
GE 14000		10.3	15.4	25.3	29.0	30.4	34.8	38.2	39.8	43.3	43.5	44.2	45.8	48.2	49.5	52.3
GE 12000		10.6	15.7	25.7	29.5	30.9	35.4	38.8	40.4	44.0	44.2	44.8	46.5	48.8	50.2	53.1
GE 10000		11.9	17.4	27.8	31.8	33.4	38.0	41.4	43.0	46.7	46.9	47.5	49.1	51.7	53.2	56.2
GE 9000		12.3	18.0	28.6	32.6	34.2	38.8	42.3	44.0	47.6	47.8	48.5	50.1	52.7	54.3	57.3
GE 8000		14.7	20.8	33.1	38.1	39.7	44.6	48.3	50.1	54.0	54.4	55.4	57.1	59.9	61.6	64.8
GE 7000		16.0	22.6	35.5	40.5	42.3	47.4	51.2	53.1	57.1	57.5	58.5	60.2	63.1	64.8	68.1
GE 6000		16.0	22.7	35.6	40.6	42.4	47.5	51.3	53.2	57.3	57.7	58.7	60.4	63.3	65.1	68.3
GE 5000		17.6	24.4	37.6	42.8	44.5	49.9	53.8	55.7	60.1	60.5	61.5	63.2	66.2	68.0	71.2
GE 4500		18.2	24.9	38.6	44.1	45.8	51.6	55.5	57.7	62.3	62.7	63.7	65.4	68.4	70.1	73.3
GE 4000		19.5	26.7	41.4	47.7	49.7	55.6	59.5	61.7	66.6	67.0	68.0	69.7	73.0	74.7	78.0
GE 3500		20.3	27.5	42.7	49.2	51.3	57.4	61.6	64.0	69.1	69.6	70.5	72.3	75.6	77.3	80.5
GE 3000		22.2	30.2	46.0	52.7	55.2	61.5	66.1	68.5	73.8	74.2	75.3	77.0	80.4	82.3	85.5
GE 2500		23.0	31.1	47.2	53.9	56.3	62.8	67.4	69.8	75.1	75.5	76.6	78.3	81.7	83.5	86.8
GE 2000		23.4	31.6	48.7	55.8	58.3	65.1	69.9	72.5	77.8	78.3	79.4	81.1	84.5	86.3	89.6
GE 1800		23.4	31.6	48.8	56.0	58.5	65.3	70.1	72.7	78.1	78.5	79.6	81.3	84.7	86.6	89.8
GE 1500		23.5	31.8	49.7	57.4	59.9	66.9	71.8	74.4	79.8	80.2	81.4	83.1	86.6	88.4	91.6
GE 1200		24.1	32.6	50.8	58.5	61.0	68.1	73.0	75.6	81.0	81.4	82.6	84.3	87.7	89.6	92.8
GE 1000		24.1	32.7	51.2	58.9	61.5	69.0	74.1	76.8	82.2	82.6	83.8	85.5	88.9	90.8	94.0
GE 900		24.1	32.7	51.4	59.1	61.7	69.2	74.4	77.1	82.5	82.9	84.1	85.8	89.2	91.1	94.3
GE 800		24.1	32.7	51.4	59.1	61.7	69.2	74.5	77.2	82.7	83.1	84.3	86.0	89.5	91.3	94.5
GE 700		24.1	32.7	51.4	59.1	61.7	69.6	74.8	77.5	83.0	83.4	84.8	86.6	90.0	91.8	95.1
GE 600		24.1	32.7	51.5	59.4	62.0	69.9	75.3	78.0	83.4	83.9	85.3	87.0	90.4	92.3	95.5
GE 500		24.1	32.7	51.5	59.4	62.0	69.9	75.7	78.4	83.9	84.3	85.7	87.4	90.9	92.7	95.9
GE 400		24.1	32.7	51.5	59.4	62.0	70.2	76.0	78.8	84.3	84.7	86.1	88.2	91.6	93.4	96.7
GE 300		24.1	32.7	51.5	59.4	62.0	70.2	76.0	78.8	84.4	84.8	86.2	88.3	91.7	93.5	96.8
GE 200		24.1	32.7	51.5	59.4	62.0	70.2	76.0	78.8	84.4	84.9	86.5	88.7	92.5	94.5	98.3
GE 100		24.1	32.7	51.5	59.4	62.0	70.2	76.0	78.8	84.4	85.1	86.6	89.1	93.1	95.3	99.5
GE 0		24.1	32.7	51.5	59.4	62.0	70.2	76.0	78.8	84.4	85.1	86.6	89.1	93.1	95.3	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
LSAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10680 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: AUG HOURS(LST): 0600-0800

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	7.7	9.9	17.2	22.3	24.3	28.3	30.5	31.2	33.4	33.9	35.2	35.8	37.6	38.3	40.6	
GE 20000	8.5	10.9	18.9	24.2	26.3	30.9	33.4	34.1	36.5	36.9	38.2	38.9	40.8	41.4	43.8	
GE 18000	9.4	11.7	20.1	25.4	27.5	32.2	34.7	35.4	37.7	38.2	39.5	40.3	42.2	42.8	45.2	
GE 16000	9.5	11.8	20.2	25.6	27.7	32.5	35.1	35.8	38.2	38.6	39.9	40.8	42.6	43.2	45.6	
GE 14000	9.5	11.8	20.2	25.7	27.8	32.6	35.2	35.9	38.3	38.7	40.0	40.9	42.7	43.3	45.7	
GE 12000	9.5	11.8	20.4	26.1	28.3	33.1	35.9	36.7	39.2	39.7	41.0	41.8	43.7	44.3	46.7	
GE 10000	10.8	13.3	22.8	28.8	31.3	36.2	39.0	39.8	42.5	42.9	44.2	45.1	47.0	47.6	50.2	
GE 9000	11.2	13.8	23.3	29.7	32.2	37.1	40.0	40.9	43.5	44.0	45.3	46.2	48.2	48.9	51.6	
GE 8000	12.8	16.3	27.2	34.4	37.0	42.8	45.8	46.7	49.7	50.3	51.6	52.6	54.5	55.3	58.0	
GE 7000	13.7	17.3	29.0	36.7	39.2	45.5	49.0	50.0	53.1	53.8	55.1	56.1	58.2	59.0	61.8	
GE 6000	13.7	17.3	29.0	36.7	39.2	45.5	49.0	50.0	53.1	53.8	55.1	56.1	58.2	59.0	61.8	
GE 5000	14.4	18.5	30.8	38.5	41.3	48.1	51.7	52.7	55.9	56.7	58.0	59.0	61.1	61.9	64.7	
GE 4500	14.9	19.5	31.9	39.7	42.7	49.8	53.7	54.7	58.1	58.8	60.1	61.2	63.2	64.1	66.9	
GE 4000	16.5	21.0	34.5	43.2	46.3	53.7	58.0	59.0	62.5	63.3	64.8	65.9	68.2	69.0	71.8	
GE 3500	17.1	21.6	35.5	44.6	48.0	55.3	60.0	61.1	64.5	65.4	66.9	68.0	70.2	71.1	73.9	
GE 3000	18.4	23.3	38.4	48.1	51.6	58.9	64.2	65.3	68.8	69.7	71.3	72.6	74.8	75.7	78.5	
GE 2500	19.5	24.5	39.9	49.6	53.2	60.6	65.9	67.0	70.5	71.5	73.1	74.4	76.7	77.5	80.3	
GE 2000	21.0	26.2	42.3	52.3	56.1	64.0	69.6	70.8	74.5	75.5	77.1	78.4	80.6	81.5	84.3	
GE 1800	21.2	26.5	42.6	52.6	56.5	64.3	69.9	71.1	74.8	75.8	77.4	78.7	81.0	81.8	84.6	
GE 1500	22.3	27.5	44.2	54.4	58.3	66.2	71.9	73.1	77.1	78.2	79.8	81.3	83.5	84.4	87.2	
GE 1200	22.7	28.3	45.4	56.1	60.3	68.4	74.2	75.5	79.6	80.8	82.4	83.9	86.1	87.0	89.8	
GE 1000	22.7	28.5	45.7	56.8	61.4	69.6	75.8	77.1	81.2	82.5	84.2	85.8	88.1	88.9	91.7	
GE 900	22.7	28.5	46.1	57.2	61.8	70.1	76.5	77.7	81.8	83.2	84.9	86.6	88.8	89.7	92.5	
GE 800	22.8	28.6	46.2	57.5	62.2	70.5	77.0	78.5	82.7	84.1	85.8	87.4	89.8	90.6	93.4	
GE 700	22.8	28.6	46.3	57.6	62.3	70.8	77.2	78.7	83.0	84.4	86.1	87.7	90.1	91.0	93.8	
GE 600	22.8	28.6	46.3	57.7	62.4	71.5	78.1	79.7	84.3	85.7	87.4	89.0	91.4	92.3	95.1	
GE 500	22.8	28.6	46.3	57.7	62.4	71.5	78.1	79.7	84.6	86.0	87.7	89.4	91.8	92.8	95.6	
GE 400	22.8	28.6	46.3	57.7	62.5	71.7	78.3	79.9	85.1	86.5	88.3	89.9	92.4	93.3	96.1	
GE 300	22.8	28.6	46.3	57.7	62.6	71.8	78.5	80.1	85.5	86.9	88.7	90.3	92.9	94.0	96.8	
GE 200	22.8	28.6	46.3	57.7	62.6	71.8	78.5	80.1	85.6	87.0	88.8	90.4	93.4	94.6	98.1	
GE 100	22.8	28.6	46.3	57.7	62.6	71.8	78.5	80.1	85.6	87.0	88.8	90.4	93.5	95.2	99.7	
GE 0	22.8	28.6	46.3	57.7	62.6	71.8	78.5	80.1	85.6	87.0	88.8	90.4	93.7	95.3	100.0	

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: AUG HOURS(LST): 0900-1100

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS														
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	26.3	28.8	38.5	40.2	41.0	41.0	41.4	41.5	41.5	41.5	41.5	41.6	41.6	41.6	41.6	
GE 20000	29.5	32.3	43.2	45.5	46.3	46.3	46.8	46.9	46.9	46.9	46.9	47.0	47.0	47.0	47.0	
GE 18000	30.3	33.1	44.7	47.0	47.8	47.8	48.3	48.4	48.4	48.4	48.4	48.5	48.5	48.5	48.5	
GE 16000	30.6	33.4	45.2	47.5	48.4	48.4	48.8	48.9	48.9	48.9	48.9	49.0	49.0	49.0	49.0	
GE 14000	30.8	33.5	45.4	47.8	48.7	48.7	49.1	49.2	49.2	49.2	49.2	49.4	49.4	49.4	49.4	
GE 12000	31.1	34.0	46.3	48.8	49.7	49.7	50.1	50.2	50.2	50.2	50.2	50.3	50.3	50.3	50.3	
GE 10000	33.1	36.0	48.6	51.1	52.0	52.0	52.6	52.7	52.7	52.7	52.7	52.8	52.8	52.8	52.8	
GE 9000	33.5	36.5	49.2	51.7	52.7	52.7	53.2	53.3	53.3	53.3	53.3	53.4	53.4	53.4	53.4	
GE 8000	36.5	40.1	53.8	57.1	58.1	58.4	58.9	59.0	59.1	59.1	59.1	59.2	59.2	59.2	59.2	
GE 7000	37.8	41.7	55.6	59.2	60.3	60.8	61.3	61.4	61.5	61.5	61.5	61.6	61.6	61.6	61.6	
GE 6000	38.3	42.2	56.2	59.8	60.9	61.3	61.8	61.9	62.0	62.0	62.0	62.2	62.2	62.2	62.2	
GE 5000	39.9	44.0	58.4	62.2	63.4	64.0	64.5	64.6	64.7	64.7	64.7	64.8	64.8	64.8	64.8	
GE 4500	41.4	45.6	60.5	64.3	65.6	66.1	66.7	66.8	66.9	66.9	66.9	67.0	67.0	67.0	67.0	
GE 4000	44.3	48.7	64.4	68.3	69.6	70.2	70.8	70.9	71.1	71.1	71.1	71.2	71.2	71.2	71.2	
GE 3500	46.0	50.5	67.1	71.1	72.4	73.1	73.8	73.9	74.1	74.1	74.1	74.2	74.2	74.2	74.2	
GE 3000	52.4	57.4	75.3	79.6	80.9	81.7	82.5	82.7	83.1	83.1	83.1	83.2	83.2	83.2	83.2	
GE 2500	54.9	60.1	78.6	83.1	84.4	85.4	86.1	86.3	86.8	86.8	86.8	86.9	86.9	86.9	86.9	
GE 2000	56.5	61.7	80.8	85.6	86.9	88.2	88.9	89.1	89.6	89.6	89.8	89.9	89.9	89.9	89.9	
GE 1800	56.8	62.0	81.2	86.1	87.4	88.7	89.7	89.9	90.3	90.3	90.5	90.6	90.6	90.6	90.6	
GE 1500	57.7	63.2	82.7	87.7	89.2	90.5	91.8	92.0	92.5	92.5	92.7	92.8	92.8	92.8	92.8	
GE 1200	58.3	64.1	84.1	89.1	90.8	92.2	93.5	93.8	94.4	94.4	94.6	94.7	94.7	94.7	94.7	
GE 1000	58.7	64.7	84.9	90.3	92.0	93.5	94.9	95.2	95.8	95.8	96.1	96.2	96.2	96.2	96.2	
GE 900	58.7	64.7	85.5	91.0	92.7	94.3	95.8	96.0	96.7	96.7	97.0	97.1	97.1	97.1	97.1	
GE 800	58.7	64.7	85.6	91.2	92.9	94.8	96.3	96.6	97.2	97.2	97.5	97.6	97.6	97.6	97.6	
GE 700	58.7	64.7	85.8	91.4	93.2	95.2	96.8	97.0	97.7	97.7	98.1	98.2	98.2	98.2	98.2	
GE 600	58.7	64.7	85.8	91.4	93.3	95.3	97.0	97.2	98.1	98.1	98.4	98.5	98.5	98.5	98.5	
GE 500	58.7	64.7	85.8	91.4	93.4	95.4	97.2	97.4	98.3	98.4	98.7	98.8	98.9	98.9	98.9	
GE 400	58.7	64.7	85.8	91.6	93.7	95.7	97.5	97.7	98.8	98.9	99.2	99.4	99.5	99.5	99.5	
GE 300	58.7	64.7	85.8	91.6	93.7	95.7	97.5	97.7	98.9	99.1	99.6	99.8	100.0	100.0	100.0	
GE 200	58.7	64.7	85.8	91.6	93.7	95.7	97.5	97.7	98.9	99.1	99.6	99.8	100.0	100.0	100.0	
GE 100	58.7	64.7	85.8	91.6	93.7	95.7	97.5	97.7	98.9	99.1	99.6	99.8	100.0	100.0	100.0	
GE 0	58.7	64.7	85.8	91.6	93.7	95.7	97.5	97.7	98.9	99.1	99.6	99.8	100.0	100.0	100.0	

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER PERIOD OF RECORD: 77-86
MONTH: AUG HOURS(LST): 1200-1400

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	35.2	35.4	36.7	36.8	36.6	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8
GE 20000	41.3	42.0	43.7	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
GE 18000	42.7	43.4	45.1	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
GE 16000	42.8	43.5	45.2	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4
GE 14000	43.1	43.9	45.6	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8
GE 12000	43.5	44.3	46.0	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
GE 10000	45.9	46.9	49.0	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2
GE 9000	47.2	48.2	50.8	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0
GE 8000	52.4	53.4	57.0	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
GE 7000	54.4	55.6	59.4	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
GE 6000	55.1	56.2	60.2	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
GE 5000	57.2	58.4	62.6	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
GE 4500	58.9	60.1	64.6	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5
GE 4000	64.6	66.3	72.2	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
GE 3500	69.7	71.7	78.0	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
GE 3000	79.0	82.2	89.2	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
GE 2500	81.5	84.6	92.2	93.5	93.8	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
GE 2000	82.4	85.5	93.1	94.9	95.2	95.3	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 1800	82.8	85.9	93.8	95.6	95.8	95.9	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
GE 1500	83.2	86.5	94.9	96.9	97.1	97.2	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
GE 1200	83.8	87.0	96.1	98.1	98.3	98.5	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
GE 1000	84.0	87.2	96.6	98.6	98.8	99.0	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 900	84.0	87.2	96.6	98.7	98.9	99.1	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 800	84.0	87.2	96.6	98.7	98.9	99.1	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 700	84.0	87.2	96.6	98.7	98.9	99.1	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 600	84.0	87.2	96.6	98.7	98.9	99.1	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 500	84.0	87.4	96.9	99.0	99.2	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400	84.0	87.4	96.9	99.0	99.2	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300	84.0	87.4	96.9	99.0	99.2	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	84.0	87.4	96.9	99.0	99.2	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	84.0	87.4	96.9	99.0	99.2	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 0	84.0	87.4	96.9	99.0	99.2	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 950

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: AUG HOURS(LST): 1500-1700

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		39.0	39.5	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1
GE 20000		46.0	46.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5
GE 18000		47.1	47.6	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
GE 16000		47.3	47.8	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
GE 14000		47.5	48.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1
GE 12000		48.4	48.9	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1
GE 10000		50.8	51.3	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
GE 9000		52.2	52.8	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3
GE 8000		58.0	59.1	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8
GE 7000		61.5	62.7	65.6	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
GE 6000		62.0	63.2	66.1	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2
GE 5000		65.3	66.6	69.7	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
GE 4500		68.4	69.9	73.1	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2
GE 4000		75.1	77.1	81.1	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.6	81.6	81.6	81.6
GE 3500		78.9	81.2	85.2	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.7	85.7	85.7	85.7
GE 3000		86.3	88.9	93.4	94.1	94.2	94.2	94.5	94.5	94.5	94.5	94.5	94.6	94.6	94.6	94.6
GE 2500		87.6	90.3	94.8	95.6	95.7	95.7	96.0	96.0	96.0	96.0	96.0	96.1	96.1	96.1	96.1
GE 2000		88.0	91.1	95.8	97.0	97.1	97.1	97.7	97.7	97.7	97.7	97.7	97.8	97.8	97.8	97.8
GE 1800		88.1	91.2	96.0	97.2	97.3	97.3	98.0	98.0	98.0	98.0	98.0	98.1	98.1	98.1	98.1
GE 1500		88.4	91.5	96.9	98.1	98.2	98.2	98.8	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9
GE 1200		88.4	91.5	97.1	98.4	98.5	98.5	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2
GE 1000		88.4	91.5	97.1	98.5	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5
GE 900		88.7	91.8	97.4	98.8	99.0	99.0	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8
GE 800		88.7	91.8	97.4	98.8	99.0	99.0	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8
GE 700		88.7	91.8	97.4	98.8	99.0	99.0	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8
GE 600		88.7	91.8	97.4	98.8	99.0	99.0	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8
GE 500		88.7	92.0	97.6	99.0	99.2	99.2	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 400		88.7	92.0	97.6	99.0	99.2	99.2	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 300		88.7	92.0	97.6	99.0	99.2	99.2	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 200		88.7	92.0	97.6	99.0	99.2	99.2	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 100		88.7	92.0	97.6	99.0	99.2	99.2	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 0		88.7	92.0	97.6	99.0	99.2	99.2	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH — PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
USAFETAC — FROM HOURLY OBSERVATIONS
AIR WEATHER SERVICE/MAC

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER — PERIOD OF RECORD: 77-86
MONTH: AUG HOURS(LST): 1800-2000

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	41.0	42.8	44.7	44.8	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9
GE 20000	47.3	49.8	52.5	52.8	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
GE 18000	48.3	51.1	54.0	54.3	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
GE 16000	48.3	51.1	54.0	54.3	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
GE 14000	48.7	51.5	54.4	54.7	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
GE 12000	49.7	52.6	55.6	55.9	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
GE 10000	52.4	55.4	58.6	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
GE 9000	53.9	56.9	60.4	61.0	61.1	61.2	61.2	61.2	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
GE 8000	59.5	63.3	67.6	68.2	68.4	68.6	68.6	68.6	68.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE 7000	62.6	66.7	71.0	71.7	71.9	72.2	72.2	72.2	72.3	72.4	72.4	72.4	72.4	72.4	72.4	72.4
GE 6000	63.5	67.6	71.9	72.7	72.9	73.1	73.1	73.1	73.2	73.3	73.3	73.3	73.3	73.3	73.3	73.3
GE 5000	65.8	70.0	75.3	76.0	76.2	76.5	76.5	76.5	76.6	76.7	76.7	76.7	76.7	76.7	76.7	76.7
GE 4500	68.6	72.9	78.8	79.7	79.9	80.3	80.4	80.4	80.5	80.6	80.6	80.6	80.6	80.6	80.6	80.6
GE 4000	74.5	79.2	85.5	86.9	87.2	87.6	88.0	88.0	88.1	88.2	88.2	88.2	88.2	88.2	88.2	88.2
GE 3500	75.8	80.5	86.8	88.2	88.5	88.9	89.4	89.4	89.5	89.6	89.6	89.6	89.6	89.6	89.6	89.6
GE 3000	79.1	84.4	91.3	92.7	93.1	93.7	94.3	94.3	94.4	94.6	94.7	94.7	94.7	94.7	94.7	94.7
GE 2500	79.8	85.3	92.6	94.2	94.6	95.2	95.8	95.8	95.9	96.1	96.2	96.2	96.2	96.2	96.2	96.2
GE 2000	80.2	85.7	93.4	95.7	96.2	96.8	97.4	97.4	97.5	97.7	97.8	97.8	97.8	97.8	97.8	97.8
GE 1800	80.2	85.7	93.4	95.7	96.2	96.8	97.4	97.4	97.5	97.7	97.8	97.8	97.8	97.8	97.8	97.8
GE 1500	80.2	85.7	93.7	96.1	96.8	97.3	98.1	98.2	98.3	98.5	98.6	98.6	98.6	98.6	98.6	98.6
GE 1200	80.2	85.7	93.8	96.5	97.1	97.7	98.7	98.8	98.9	99.1	99.2	99.2	99.2	99.2	99.2	99.2
GE 1000	80.2	85.7	93.8	96.5	97.1	97.7	98.7	98.8	99.1	99.4	99.5	99.5	99.5	99.5	99.5	99.5
GE 900	80.3	85.8	93.9	96.6	97.2	98.0	98.9	99.0	99.4	99.6	99.7	99.7	99.7	99.7	99.7	99.7
GE 800	80.3	85.8	93.9	96.6	97.2	98.0	98.9	99.0	99.4	99.6	99.7	99.7	99.7	99.7	99.7	99.7
GE 700	80.3	85.8	93.9	96.6	97.2	98.0	98.9	99.0	99.4	99.6	99.7	99.7	99.7	99.7	99.7	99.7
GE 600	80.3	85.8	93.9	96.6	97.2	98.0	98.9	99.0	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0
GE 500	80.3	85.8	93.9	96.6	97.2	98.0	98.9	99.0	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0
GE 400	80.3	85.8	93.9	96.6	97.2	98.0	98.9	99.0	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0
GE 300	80.3	85.8	93.9	96.6	97.2	98.0	98.9	99.0	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	80.3	85.8	93.9	96.6	97.2	98.0	98.9	99.0	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	80.3	85.8	93.9	96.6	97.2	98.0	98.9	99.0	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0
GE 0	80.3	85.8	93.9	96.6	97.2	98.0	98.9	99.0	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH — PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
USAFETAC — FROM HOURLY OBSERVATIONS
AIR WEATHER SERVICE/MAC

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER — PERIOD OF RECORD: 77-86
MONTH: AUG HOURS(LST): 2100-2300

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	35.6	40.4	47.7	50.2	50.4	51.6	52.0	52.0	52.5	52.6	52.8	52.8	52.9	52.9	52.9	
GE 20000	39.2	44.4	54.5	57.7	58.0	59.2	59.7	59.7	60.1	60.2	60.4	60.4	60.5	60.5	60.5	
GE 18000	39.5	45.2	55.9	59.1	59.4	60.6	61.1	61.1	61.5	61.6	61.8	61.8	61.9	61.9	61.9	
GE 16000	39.5	45.2	55.9	59.1	59.4	60.6	61.1	61.1	61.5	61.6	61.8	61.8	61.9	61.9	61.9	
GE 14000	39.9	45.6	56.3	59.7	59.9	61.2	61.6	61.6	62.0	62.2	62.4	62.4	62.5	62.5	62.5	
GE 12000	40.9	46.6	57.4	60.8	61.0	62.3	62.7	62.7	63.1	63.2	63.4	63.4	63.5	63.5	63.5	
GE 10000	43.6	49.7	60.9	64.2	64.4	65.8	66.2	66.2	66.7	66.8	67.0	67.0	67.1	67.1	67.1	
GE 9000	44.9	50.9	62.5	65.8	66.0	67.4	67.8	67.8	68.3	68.4	68.6	68.6	68.7	68.7	68.7	
GE 8000	48.3	55.3	67.2	70.9	71.1	72.7	73.4	73.4	73.9	74.0	74.2	74.2	74.3	74.3	74.3	
GE 7000	49.1	56.5	69.1	73.0	73.2	74.8	75.6	75.6	76.0	76.2	76.5	76.5	76.6	76.6	76.6	
GE 6000	49.9	57.2	69.9	73.8	74.0	75.6	76.3	76.3	76.8	77.0	77.2	77.2	77.3	77.3	77.3	
GE 5000	51.9	59.5	73.1	77.0	77.2	79.0	79.8	79.8	80.2	80.4	80.6	80.6	80.8	80.8	80.8	
GE 4500	52.9	60.5	74.6	78.5	78.7	80.5	81.4	81.4	81.8	82.0	82.3	82.3	82.4	82.4	82.4	
GE 4000	57.0	64.9	79.2	83.4	83.7	85.6	86.6	86.6	87.3	87.6	87.8	87.8	88.2	88.2	88.2	
GE 3500	57.4	65.4	80.0	84.2	84.4	86.3	87.5	87.5	88.7	89.0	89.2	89.2	89.6	89.6	89.6	
GE 3000	59.6	67.7	83.0	87.5	87.7	89.7	90.9	90.9	92.0	92.4	92.8	92.8	93.1	93.1	93.1	
GE 2500	60.1	68.4	83.7	88.4	88.7	90.9	92.2	92.2	93.3	93.7	94.1	94.1	94.4	94.4	94.4	
GE 2000	60.4	68.7	84.3	89.2	90.0	92.5	93.9	93.9	95.1	95.4	95.8	95.8	96.1	96.1	96.1	
GE 1800	60.4	68.7	84.3	89.2	90.0	92.5	93.9	93.9	95.1	95.4	95.8	95.8	96.1	96.1	96.1	
GE 1500	60.5	68.8	84.7	89.8	90.5	93.9	95.4	95.4	96.6	96.9	97.3	97.3	97.6	97.6	97.6	
GE 1200	60.5	68.8	85.1	90.2	91.2	94.5	96.0	96.1	97.3	97.6	98.1	98.1	98.4	98.4	98.4	
GE 1000	60.5	68.8	85.2	90.5	91.6	95.2	96.8	96.9	98.1	98.4	98.8	98.8	99.1	99.1	99.1	
GE 900	60.5	68.8	85.2	90.5	91.6	95.2	96.8	96.9	98.1	98.4	98.8	98.8	99.1	99.1	99.1	
GE 800	60.5	68.8	85.2	90.5	91.8	95.4	97.0	97.1	98.3	98.6	99.0	99.0	99.4	99.4	99.4	
GE 700	60.5	68.8	85.2	90.5	91.8	95.4	97.0	97.1	98.3	98.6	99.0	99.0	99.4	99.4	99.4	
GE 600	60.5	68.8	85.2	90.5	91.8	95.4	97.0	97.1	98.3	98.8	99.2	99.2	99.6	99.6	99.6	
GE 500	60.5	68.8	85.2	90.6	91.9	95.5	97.1	97.2	98.4	98.9	99.4	99.4	99.7	99.7	99.7	
GE 400	60.5	68.8	85.2	90.6	91.9	95.5	97.1	97.2	98.4	98.9	99.4	99.4	99.7	99.7	99.7	
GE 300	60.5	68.8	85.2	90.6	91.9	95.5	97.1	97.2	98.4	98.9	99.4	99.4	99.7	99.7	99.7	
GE 200	60.5	68.8	85.2	90.6	91.9	95.5	97.1	97.2	98.5	99.0	99.5	99.6	99.9	99.9	99.9	
GE 100	60.5	68.8	85.2	90.6	91.9	95.5	97.1	97.2	98.5	99.0	99.5	99.7	100.0	100.0	100.0	
GE 0	60.5	68.8	85.2	90.6	91.9	95.5	97.1	97.2	98.5	99.0	99.5	99.7	100.0	100.0	100.0	

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH — PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
USAFETAC — FROM HOURLY OBSERVATIONS
AIR WEATHER SERVICE/MAC

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER PERIOD OF RECORD: 77-86
MONTH: AUG HOURS(LST): ALL

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	27.3	30.1	36.0	38.2	38.9	40.4	41.4	41.8	42.7	42.8	43.1	43.5	44.2	44.5	45.2	
GE 20000	31.1	34.2	41.3	43.8	44.6	46.2	47.2	47.7	48.6	48.7	49.0	49.4	50.1	50.4	51.1	
GE 18000	31.7	35.1	42.6	45.1	45.8	47.5	48.6	49.0	50.0	50.1	50.4	50.8	51.5	51.8	52.5	
GE 16000	31.8	35.2	42.7	45.2	46.0	47.6	48.8	49.2	50.1	50.3	50.6	51.0	51.7	52.0	52.7	
GE 14000	32.1	35.4	42.9	45.5	46.3	47.9	49.0	49.5	50.4	50.6	50.9	51.3	52.0	52.3	53.0	
GE 12000	32.6	36.0	43.7	46.3	47.0	48.7	49.9	50.3	51.3	51.4	51.7	52.2	52.8	53.2	53.9	
GE 10000	34.7	38.2	46.3	49.0	49.8	51.6	52.7	53.2	54.2	54.3	54.6	55.1	55.8	56.1	56.9	
GE 9000	35.6	39.2	47.4	50.2	51.0	52.8	54.0	54.5	55.5	55.7	56.0	56.4	57.1	57.5	58.3	
GE 8000	39.2	43.5	52.6	56.0	56.9	58.9	60.3	60.8	61.9	62.1	62.4	62.9	63.6	64.0	64.8	
GE 7000	41.0	45.5	55.3	58.6	59.5	61.7	63.1	63.6	64.8	65.0	65.3	65.8	66.6	67.0	67.8	
GE 6000	41.4	45.9	55.7	59.1	60.0	62.2	63.6	64.1	65.3	65.5	65.8	66.3	67.1	67.5	68.3	
GE 5000	43.3	48.0	58.3	61.8	62.7	65.0	66.5	67.0	68.2	68.5	68.8	69.3	70.1	70.5	71.3	
GE 4500	44.8	49.7	60.4	63.9	64.9	67.3	68.8	69.4	70.7	70.9	71.3	71.7	72.5	72.9	73.7	
GE 4000	48.7	54.0	65.4	69.4	70.4	72.9	74.5	75.1	76.5	76.7	77.1	77.6	78.5	78.9	79.7	
GE 3500	50.5	55.9	67.7	71.8	72.9	75.4	77.2	77.8	79.3	79.6	79.9	80.4	81.3	81.7	82.5	
GE 3000	54.7	60.7	73.3	77.5	78.6	81.5	83.5	84.1	85.6	85.9	86.3	86.8	87.7	88.2	89.0	
GE 2500	56.0	62.0	74.9	79.3	80.7	83.4	85.4	86.0	87.6	87.9	88.3	88.8	89.7	90.2	91.0	
GE 2000	56.7	62.8	76.3	81.0	82.4	85.4	87.6	88.2	89.8	90.1	90.6	91.1	92.0	92.4	93.2	
GE 1800	56.8	63.0	76.5	81.3	82.7	85.6	87.8	88.5	90.1	90.4	90.8	91.3	92.2	92.7	93.5	
GE 1500	57.2	63.4	77.4	82.3	83.8	86.9	89.2	89.9	91.5	91.8	92.3	92.8	93.7	94.2	95.0	
GE 1200	57.5	63.8	78.1	83.2	84.7	88.0	90.4	91.1	92.7	93.1	93.5	94.1	95.0	95.4	96.2	
GE 1000	57.6	64.0	78.4	83.6	85.3	88.7	91.2	91.9	93.6	93.9	94.4	95.0	95.9	96.3	97.1	
GE 900	57.6	64.0	78.6	83.9	85.6	89.0	91.6	92.3	94.0	94.3	94.8	95.4	96.3	96.7	97.5	
GE 800	57.6	64.0	78.7	84.0	85.6	89.2	91.7	92.5	94.2	94.5	95.1	95.6	96.5	96.9	97.8	
GE 700	57.6	64.0	78.7	84.0	85.7	89.3	91.9	92.6	94.4	94.7	95.3	95.8	96.7	97.2	98.0	
GE 600	57.6	64.0	78.7	84.1	85.8	89.5	92.1	92.8	94.7	95.1	95.6	96.1	97.1	97.5	98.3	
GE 500	57.6	64.1	78.8	84.2	85.9	89.6	92.3	93.0	94.9	95.3	95.8	96.4	97.3	97.8	98.6	
GE 400	57.6	64.1	78.8	84.2	86.0	89.7	92.4	93.2	95.1	95.5	96.0	96.6	97.6	98.0	98.8	
GE 300	57.6	64.1	78.8	84.2	86.0	89.7	92.4	93.2	95.2	95.6	96.2	96.7	97.7	98.2	99.0	
GE 200	57.6	64.1	78.8	84.2	86.0	89.7	92.4	93.2	95.2	95.7	96.3	96.9	98.0	98.5	99.5	
GE 100	57.6	64.1	78.8	84.2	86.0	89.7	92.4	93.2	95.2	95.7	96.3	97.0	98.1	98.7	99.9	
GE 0	57.6	64.1	78.8	84.2	86.0	89.7	92.5	93.2	95.2	95.7	96.3	97.0	98.2	98.8	100.0	

TOTAL NUMBER OF OBSERVATIONS: 7440

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: SEP HOURS(LST): 0[illegible]-0200

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GE 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	20.7	25.7	34.0	38.9	40.0	42.7	44.9	45.6	46.9	47.3	48.1	49.1	49.6	50.4	52.1	
GE 20000	22.0	27.2	36.1	41.3	42.5	45.3	47.5	48.3	49.6	50.0	50.8	51.8	52.5	53.4	55.4	
GE 18000	22.0	27.2	36.4	41.5	42.7	45.5	47.8	48.7	50.0	50.4	51.2	52.2	52.9	53.8	55.8	
GE 16000	22.0	27.2	36.4	41.5	42.7	45.5	47.8	48.7	50.0	50.4	51.2	52.2	52.9	53.8	55.8	
GE 14000	22.0	27.2	36.4	41.5	42.7	45.5	47.8	48.7	50.0	50.4	51.2	52.2	52.9	53.8	55.8	
GE 12000	22.1	27.4	36.7	41.8	43.1	45.9	48.2	49.1	50.4	50.9	51.7	52.7	53.4	54.3	56.3	
GE 10000	23.9	29.6	39.1	44.9	46.1	49.3	51.7	52.6	53.9	54.4	55.1	56.2	56.9	57.8	59.8	
GE 9000	24.5	30.2	39.7	45.4	46.6	50.1	52.5	53.4	54.7	55.1	55.9	56.9	57.7	58.6	60.6	
GE 8000	27.0	33.2	43.3	49.2	50.4	54.0	56.4	57.3	58.6	59.1	59.8	60.9	61.6	62.5	64.5	
GE 7000	28.3	34.7	44.7	50.8	52.1	55.9	58.3	59.2	60.5	61.1	61.9	62.9	63.6	64.7	66.8	
GE 6000	29.3	35.7	45.9	51.9	53.1	57.0	59.4	60.3	61.6	62.2	63.0	64.0	64.8	65.8	67.9	
GE 5000	31.2	37.6	48.0	54.3	55.6	59.5	62.0	62.9	64.2	64.8	65.5	66.6	67.3	68.3	70.5	
GE 4500	32.1	38.6	49.4	55.7	57.2	61.2	63.6	64.5	65.9	66.4	67.3	68.3	69.1	70.1	72.3	
GE 4000	34.7	41.8	54.0	61.1	62.8	66.8	69.5	70.4	71.9	72.5	73.4	74.6	75.4	76.4	78.5	
GE 3500	35.5	42.8	55.1	62.6	64.3	68.3	71.3	72.5	74.0	74.6	75.5	76.7	77.6	78.6	80.8	
GE 3000	37.4	45.1	58.9	67.3	69.1	73.6	76.5	77.7	79.3	79.9	80.8	82.1	83.0	84.0	86.4	
GE 2500	38.5	46.4	61.0	69.4	71.3	76.1	79.0	80.2	81.8	82.3	83.2	84.6	85.5	86.5	88.8	
GE 2000	40.2	48.2	63.9	72.3	74.5	80.2	83.4	84.7	86.5	87.0	87.9	89.3	90.2	91.2	93.5	
GE 1800	40.3	48.4	64.1	72.5	74.7	80.5	83.8	85.0	86.8	87.4	88.3	89.6	90.5	91.5	93.8	
GE 1500	40.7	49.1	64.9	73.5	75.7	81.8	85.1	86.4	88.1	88.7	89.6	90.9	91.8	92.8	95.2	
GE 1200	40.6	49.4	65.2	73.8	76.2	82.6	85.9	87.1	88.9	89.5	90.4	91.7	92.6	93.6	96.0	
GE 1000	40.8	49.4	65.3	74.0	76.4	82.8	86.1	87.4	89.1	89.7	90.6	91.9	92.8	93.8	96.2	
GE 900	40.8	49.4	65.3	74.2	76.5	82.9	86.2	87.5	89.3	89.8	90.7	92.1	93.0	94.0	96.3	
GE 800	40.8	49.4	65.5	74.6	77.0	83.3	86.7	87.9	89.7	90.3	91.2	92.5	93.4	94.4	96.8	
GE 700	40.8	49.4	65.5	74.7	77.1	83.4	86.8	88.0	89.8	90.4	91.3	92.6	93.5	94.5	96.9	
GE 600	40.8	49.4	65.5	74.7	77.1	83.4	86.8	88.0	89.8	90.4	91.3	92.6	93.5	94.5	96.9	
GE 500	40.8	49.4	65.5	74.7	77.2	83.6	86.9	88.6	90.4	90.9	91.8	93.2	94.1	95.1	97.4	
GE 400	40.8	49.4	65.5	74.7	77.2	83.6	86.9	88.6	90.4	91.1	91.9	93.3	94.2	95.2	97.5	
GE 300	40.8	49.4	65.5	74.7	77.2	83.6	86.9	88.6	90.4	91.1	91.9	93.3	94.2	95.4	98.1	
GE 200	40.8	49.4	65.5	74.7	77.2	83.6	86.9	88.6	90.5	91.3	92.2	93.5	94.5	96.0	98.7	
GE 100	40.8	49.4	65.5	74.7	77.2	83.6	86.9	88.6	90.5	91.3	92.2	93.7	94.9	96.8	99.9	
GE 0	40.8	49.4	65.5	74.7	77.2	83.6	86.9	88.6	90.5	91.3	92.2	93.7	95.0	96.9	100.0	

TOTAL NUMBER OF OBSERVATIONS: 894

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: SEP HOURS(LST): 0300-0500

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	12.4	16.6	23.3	27.3	28.5	31.9	33.6	35.1	37.5	38.1	38.9	40.8	42.4	44.0	46.9	
GE 20000	12.8	17.4	24.3	28.4	29.6	33.3	35.2	36.8	39.1	39.8	40.7	42.8	44.4	46.2	49.2	
GE 18000	12.8	17.4	24.4	28.5	29.9	33.4	35.3	36.9	39.3	39.9	40.8	43.0	44.5	46.3	49.3	
GE 16000	12.8	17.4	24.4	28.5	29.9	33.4	35.3	36.9	39.3	39.9	40.8	43.0	44.5	46.3	49.3	
GE 14000	12.8	17.4	24.4	28.5	29.9	33.4	35.3	36.9	39.3	39.9	40.8	43.0	44.5	46.3	49.3	
GE 12000	12.8	17.6	24.6	28.9	30.2	33.8	35.7	37.2	39.6	40.3	41.2	43.3	44.9	46.6	49.7	
GE 10000	14.0	19.0	26.3	31.1	32.4	36.4	38.3	39.8	42.3	43.0	43.8	46.1	47.8	49.7	52.7	
GE 9000	14.3	19.4	26.6	31.4	32.8	37.0	38.9	40.5	43.1	43.7	44.6	46.9	48.5	50.4	53.5	
GE 8000	15.7	21.4	29.0	34.0	35.3	40.0	41.9	43.5	46.1	46.8	47.7	49.9	51.6	53.5	56.5	
GE 7000	16.3	22.1	30.1	35.3	36.7	41.5	43.4	45.0	47.5	48.2	49.1	51.3	53.0	54.9	57.9	
GE 6000	17.0	23.0	31.2	36.6	37.9	42.7	44.6	46.2	48.8	49.4	50.3	52.6	54.3	56.2	59.2	
GE 5000	18.7	25.1	33.4	39.0	40.4	45.7	47.7	49.2	51.8	52.5	53.4	55.6	57.3	59.2	62.2	
GE 4500	19.4	25.7	35.0	40.6	41.9	47.7	49.7	51.2	53.8	54.5	55.4	57.6	59.3	61.2	64.2	
GE 4000	21.5	28.3	38.6	45.1	46.6	52.7	54.9	56.5	59.1	59.7	60.6	63.2	64.9	66.8	69.9	
GE 3500	22.5	29.9	40.7	47.4	49.1	55.1	57.4	59.2	61.7	62.4	63.3	65.9	67.8	69.7	72.8	
GE 3000	24.2	31.9	43.6	51.2	53.4	60.1	62.4	64.5	67.2	67.9	68.8	71.4	73.4	75.3	78.5	
GE 2500	25.3	33.3	45.7	53.5	55.6	62.8	65.3	67.4	70.1	70.8	71.7	74.3	76.3	78.2	81.4	
GE 2000	27.4	35.5	48.7	56.4	58.9	66.8	69.6	71.7	74.4	75.1	76.0	78.5	80.6	82.6	85.8	
GE 1800	27.7	35.8	49.0	57.0	59.6	67.4	70.2	72.4	75.1	75.7	76.6	79.2	81.3	83.2	86.5	
GE 1500	28.6	36.8	50.1	58.5	61.1	69.9	71.9	74.3	77.0	77.6	78.5	81.1	83.2	85.1	88.4	
GE 1200	29.2	37.5	50.9	59.4	62.1	70.4	73.4	75.7	78.5	79.2	80.1	82.9	85.0	86.9	90.2	
GE 1000	29.5	37.8	51.3	60.0	62.9	71.7	75.1	77.5	80.5	81.2	82.1	84.9	87.0	88.9	92.2	
GE 900	29.5	37.8	51.5	60.1	63.0	72.0	75.4	77.9	80.9	81.5	82.4	85.2	87.4	89.3	92.5	
GE 800	29.6	38.0	51.7	60.4	63.3	72.4	75.7	78.2	81.2	81.9	82.8	85.6	87.7	89.6	92.8	
GE 700	29.8	38.0	51.7	60.7	63.6	72.7	76.2	78.9	81.9	82.6	83.4	86.2	88.4	90.3	93.5	
GE 600	29.8	38.0	51.7	60.7	63.6	72.7	76.2	79.0	82.0	82.8	83.8	86.6	88.7	90.6	93.8	
GE 500	29.8	38.0	51.7	60.7	63.6	72.7	76.3	79.2	82.3	83.1	84.1	86.9	89.0	90.9	94.2	
GE 400	29.8	38.0	51.7	60.7	63.6	72.7	76.3	79.2	82.3	83.1	84.1	86.9	89.0	90.9	94.4	
GE 300	29.8	38.0	51.7	60.7	63.6	72.7	76.3	79.2	82.3	83.1	84.1	86.9	89.0	91.9	96.1	
GE 200	29.8	38.0	51.7	60.7	63.6	72.7	76.3	79.2	82.3	83.1	84.1	87.1	89.4	92.3	97.3	
GE 100	29.8	38.0	51.7	60.7	63.6	72.7	76.3	79.2	82.3	83.2	84.2	87.4	89.9	92.8	99.3	
GE 0	29.8	38.0	51.7	60.7	63.6	72.7	76.3	79.2	82.3	83.2	84.3	87.5	90.0	93.0	100.0	

TOTAL NUMBER OF OBSERVATIONS: 844

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: SEP HOURS(LST): 0600-0800

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	4.6	6.3	11.1	14.1	15.1	18.1	21.1	21.8	24.1	25.0	25.5	26.8	28.5	30.4	34.1	
GE 20000	5.5	7.5	13.0	16.2	17.4	20.8	24.2	25.0	27.5	28.5	29.2	30.7	33.0	35.0	39.1	
GE 18000	5.6	7.6	13.1	16.3	17.5	21.0	24.5	25.3	27.7	28.7	29.4	30.9	33.2	35.2	39.3	
GE 16000	5.6	7.6	13.1	16.3	17.5	21.0	24.5	25.3	27.7	28.7	29.4	30.9	33.2	35.2	39.3	
GE 14000	5.6	7.6	13.1	16.3	17.5	21.0	24.5	25.5	27.9	28.9	29.6	31.2	33.4	35.4	39.6	
GE 12000	5.6	7.6	13.2	16.5	17.8	21.2	24.7	25.7	28.2	29.2	29.8	31.4	33.6	35.6	39.9	
GE 10000	6.1	8.5	14.6	18.4	19.8	23.5	26.9	28.0	30.5	31.5	32.2	34.0	36.2	38.3	42.6	
GE 9000	6.4	8.8	15.2	19.0	20.3	24.1	27.6	28.7	31.2	32.2	32.8	34.6	36.9	39.0	43.4	
GE 8000	8.3	10.9	18.2	22.8	24.1	28.8	32.6	34.0	36.4	37.4	38.1	39.9	42.1	44.2	48.6	
GE 7000	9.3	12.0	19.6	24.6	25.9	30.8	34.7	36.1	38.8	39.8	40.4	42.2	44.5	46.6	50.9	
GE 6000	9.4	12.1	19.7	24.7	26.0	31.3	35.2	36.5	39.3	40.3	41.0	42.8	45.0	47.2	51.6	
GE 5000	10.4	13.3	21.1	26.8	28.3	33.7	37.8	39.1	42.1	43.1	43.8	45.6	47.8	49.9	54.5	
GE 4500	11.6	14.6	22.8	28.8	30.4	36.4	40.4	41.9	44.9	46.0	46.7	48.6	50.8	53.0	57.5	
GE 4000	13.3	16.8	25.8	32.4	34.2	40.6	44.8	46.5	50.1	51.2	52.1	54.0	56.2	58.3	62.9	
GE 3500	14.9	18.4	28.2	35.0	36.8	43.2	47.5	49.2	52.7	53.9	55.0	56.9	59.1	61.2	65.8	
GE 3000	17.2	21.0	30.9	38.5	40.3	47.5	52.0	53.7	57.7	58.8	60.0	62.1	64.4	66.7	71.3	
GE 2500	19.2	23.0	33.3	41.6	43.5	50.7	55.4	57.2	61.3	62.5	63.9	66.0	68.3	70.6	75.2	
GE 2000	21.5	25.5	37.3	45.9	48.2	55.8	60.6	62.3	66.6	67.7	69.2	71.3	73.5	75.9	80.4	
GE 1800	21.5	25.5	37.3	46.3	48.5	56.1	61.0	62.8	67.0	68.2	69.6	71.7	74.0	76.3	80.9	
GE 1500	22.5	26.8	39.0	47.9	50.2	58.1	63.4	65.1	69.4	70.5	72.0	74.2	76.4	78.8	83.4	
GE 1200	22.7	27.0	40.0	49.9	53.2	61.2	66.6	68.4	73.3	74.4	76.1	78.3	80.6	82.9	87.5	
GE 1000	22.9	27.3	40.4	50.6	53.9	61.9	67.5	69.3	74.4	75.5	77.3	79.6	81.9	84.2	88.8	
GE 900	22.9	27.3	40.4	50.6	53.9	61.9	67.5	69.3	74.7	75.9	77.7	79.9	82.2	84.6	89.2	
GE 800	22.9	27.6	40.9	51.1	54.3	62.3	67.9	69.7	75.2	76.3	78.2	80.4	82.8	85.1	89.7	
GE 700	22.9	27.6	41.2	51.4	54.6	62.7	68.3	70.1	75.6	76.8	78.7	80.9	83.2	85.6	90.2	
GE 600	22.9	27.6	41.2	51.5	54.7	62.8	68.4	70.2	75.8	76.9	78.8	81.0	83.4	85.7	90.3	
GE 500	22.9	27.7	41.5	51.8	55.1	63.2	68.8	70.6	76.2	77.3	79.2	81.5	83.8	86.1	90.8	
GE 400	22.9	27.7	41.5	51.8	55.1	63.2	68.9	70.7	76.5	77.7	79.6	81.8	84.1	86.5	91.5	
GE 300	22.9	27.7	41.5	51.8	55.1	63.2	68.9	70.7	76.9	78.0	80.0	82.5	84.9	88.0	94.3	
GE 200	22.9	27.7	41.5	51.8	55.1	63.2	68.9	70.8	77.0	78.1	80.2	82.8	85.7	89.4	97.7	
GE 100	22.9	27.7	41.5	51.8	55.1	63.2	68.9	70.8	77.0	78.1	80.3	82.9	86.1	89.9	99.1	
GE 0	22.9	27.7	41.5	51.8	55.1	63.2	68.9	70.9	77.1	78.2	80.4	83.0	86.3	90.1	100.0	

TOTAL NUMBER OF OBSERVATIONS: 895

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER PERIOD OF RECORD: 77-86
MONTH: SEP HOURS(LST): 0900-1100

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		16.2	18.7	27.5	30.3	31.0	32.3	33.1	33.2	33.6	33.7	33.7	33.8	34.6	34.7	34.8
GE 20000		19.6	22.4	32.0	35.1	36.0	37.5	38.3	38.4	38.7	38.8	38.8	38.9	39.8	39.9	40.0
GE 18000		19.7	22.5	32.1	35.2	36.1	37.6	38.4	38.5	38.8	38.9	38.9	39.0	39.9	40.0	40.2
GE 16000		19.7	22.5	32.1	35.2	36.1	37.6	38.4	38.5	38.8	38.9	38.9	39.0	39.9	40.0	40.2
GE 14000		19.7	22.5	32.1	35.2	36.1	37.6	38.4	38.5	38.8	38.9	38.9	39.0	39.9	40.0	40.2
GE 12000		20.2	23.2	33.0	36.1	37.1	38.6	39.5	39.6	39.9	40.0	40.0	40.2	41.1	41.2	41.3
GE 10000		20.9	24.4	35.1	38.6	39.6	41.1	41.9	42.1	42.4	42.5	42.5	42.6	43.5	43.6	43.7
GE 9000		21.4	24.9	36.0	39.5	40.5	42.2	43.1	43.2	43.5	43.6	43.6	43.7	44.6	44.7	44.9
GE 8000		23.4	27.1	39.4	43.3	44.3	46.3	47.4	47.5	47.9	48.0	48.0	48.1	49.0	49.1	49.2
GE 7000		24.6	28.4	41.2	45.1	46.1	48.2	49.3	49.4	49.8	49.9	49.9	50.0	50.9	51.0	51.1
GE 6000		24.7	28.5	41.6	45.6	46.6	48.8	49.9	50.0	50.3	50.4	50.4	50.6	51.5	51.6	51.7
GE 5000		25.7	29.6	42.8	47.5	48.5	50.7	51.9	52.0	52.3	52.5	52.5	52.6	53.5	53.6	53.7
GE 4500		26.5	30.4	44.0	48.8	49.8	51.9	53.1	53.2	53.6	53.7	53.7	53.8	54.7	54.8	54.9
GE 4000		30.0	33.9	48.2	53.2	54.4	56.6	57.8	57.9	58.5	58.6	58.6	58.7	59.6	59.7	59.8
GE 3500		32.7	36.6	51.5	56.5	57.6	60.0	61.4	61.5	62.1	62.2	62.2	62.3	63.2	63.3	63.4
GE 3000		38.1	42.3	57.7	63.1	64.2	66.9	68.6	68.7	69.2	69.4	69.4	69.5	70.4	70.5	70.6
GE 2500		40.8	45.4	61.4	66.9	68.2	71.0	72.8	72.9	73.5	73.6	73.6	73.7	74.6	74.7	74.8
GE 2000		44.2	49.0	66.0	72.1	73.7	76.7	78.7	78.9	79.8	79.9	79.9	80.0	80.9	81.0	81.1
GE 1800		44.7	49.6	67.1	73.3	74.8	77.9	79.9	80.0	80.9	81.0	81.0	81.1	82.0	82.1	82.2
GE 1500		46.9	52.1	69.7	76.1	78.1	81.4	83.8	83.9	84.8	84.9	84.9	85.0	85.9	86.0	86.1
GE 1200		47.7	53.0	71.1	78.1	80.8	84.1	86.8	86.9	88.1	88.3	88.3	88.4	89.3	89.4	89.5
GE 1000		47.8	53.1	72.1	79.3	82.0	85.7	88.8	88.9	90.4	90.5	90.5	90.6	91.5	91.6	91.7
GE 900		47.9	53.2	72.3	79.4	82.2	86.0	89.1	89.3	90.7	90.8	90.8	90.9	91.8	91.9	92.1
GE 800		47.9	53.4	72.4	79.5	82.3	86.1	89.3	89.4	90.8	90.9	90.9	91.1	91.9	92.1	92.2
GE 700		47.9	53.4	72.7	80.0	82.9	86.8	90.0	90.2	91.9	92.1	92.1	92.4	93.3	93.4	93.5
GE 600		47.9	53.4	72.8	80.2	83.1	87.1	90.5	90.7	92.5	92.6	92.7	93.2	94.3	94.4	94.5
GE 500		48.1	53.7	73.2	80.8	84.0	88.0	91.4	91.7	93.8	94.1	94.2	94.9	96.1	96.3	96.4
GE 400		48.1	53.7	73.2	80.8	84.1	88.1	91.6	92.3	94.6	94.9	95.2	96.0	97.3	97.9	98.0
GE 300		48.1	53.7	73.2	80.8	84.1	88.1	91.6	92.3	94.6	94.9	95.2	96.1	97.7	98.5	98.8
GE 200		48.1	53.7	73.2	80.8	84.1	88.1	91.6	92.3	94.6	94.9	95.3	96.2	97.9	98.9	99.6
GE 100		48.1	53.7	73.2	80.8	84.1	88.1	91.6	92.3	94.6	94.9	95.3	96.2	98.0	99.0	99.8
GE 0		48.2	53.8	73.3	80.9	84.2	88.3	91.7	92.4	94.7	95.0	95.4	96.3	98.1	99.1	100.0

TOTAL NUMBER OF OBSERVATIONS: 894

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: SEP HOURS(LST): 1200-1400

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	31.1	32.3	38.6	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9
GE 20000	35.6	36.9	43.4	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7
GE 18000	36.2	37.6	44.2	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
GE 16000	36.2	37.6	44.2	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
GE 14000	36.2	37.6	44.3	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6
GE 12000	37.4	38.8	45.6	46.0	46.0	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
GE 10000	39.7	41.4	46.4	48.8	48.8	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
GE 9000	39.9	41.6	48.8	49.1	49.1	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2
GE 8000	43.0	45.0	52.6	53.1	53.1	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4
GE 7000	44.4	46.5	54.4	54.7	54.7	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9
GE 6000	44.6	46.8	54.6	54.9	54.9	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1
GE 5000	46.2	48.4	56.9	57.4	57.4	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
GE 4500	47.2	49.6	58.1	58.8	58.8	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
GE 4000	52.1	54.7	64.4	65.3	65.3	65.5	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
GE 3500	56.7	59.3	69.4	70.2	70.2	70.5	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
GE 3000	65.4	68.5	80.0	81.2	81.2	81.9	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
GE 2500	69.6	72.1	84.5	85.7	85.7	86.6	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
GE 2000	72.8	76.2	89.8	91.2	91.2	92.2	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
GE 1800	73.4	76.7	90.4	91.7	91.7	92.7	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
GE 1500	74.7	78.1	92.1	93.5	93.7	95.0	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
GE 1200	76.0	79.4	93.5	95.2	95.5	96.8	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
GE 1000	76.0	79.4	93.6	95.6	96.1	97.3	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
GE 900	76.0	79.4	93.6	95.9	96.3	97.7	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
GE 800	76.0	79.4	93.6	96.2	96.6	98.0	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
GE 700	76.1	79.5	94.1	96.6	97.1	98.5	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
GE 600	76.1	79.5	94.1	96.8	97.2	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 500	76.1	79.6	94.3	97.0	97.4	99.0	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 400	76.1	79.6	94.3	97.0	97.5	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300	76.1	79.6	94.3	97.0	97.5	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	76.1	79.6	94.3	97.0	97.5	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	76.1	79.6	94.3	97.0	97.5	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 0	76.1	79.6	94.3	97.0	97.5	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 894

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: SEP HOURS(LST): 1500-1700

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		37.5	38.8	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9
GE 20000		43.6	45.5	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9
GE 18000		45.2	47.1	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4
GE 16000		45.3	47.2	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
GE 14000		45.7	47.7	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
GE 12000		46.9	48.8	51.1	51.1	51.1	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
GE 10000		49.0	51.2	53.9	54.0	54.0	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
GE 9000		50.0	52.3	55.3	55.4	55.4	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
GE 8000		54.0	56.5	59.5	59.7	59.7	59.8	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
GE 7000		55.7	58.2	61.2	61.4	61.4	61.5	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
GE 6000		56.2	58.6	61.6	62.0	62.0	62.1	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
GE 5000		60.3	62.9	66.2	66.7	66.7	66.9	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
GE 4500		61.7	64.5	68.1	68.6	68.7	68.9	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
GE 4000		70.0	72.9	77.0	77.4	77.6	78.1	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
GE 3500		73.7	76.6	81.2	81.7	81.9	82.6	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
GE 3000		78.6	81.9	87.4	88.1	88.4	89.0	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
GE 2500		79.5	82.9	89.3	90.0	90.3	90.9	91.3	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
GE 2000		80.6	84.3	91.6	92.7	93.1	94.1	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
GE 1800		80.9	84.6	92.1	93.2	93.5	94.5	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
GE 1500		81.5	85.2	92.6	94.2	94.7	96.1	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
GE 1200		81.9	85.6	93.3	95.0	95.7	97.2	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
GE 1000		82.0	85.7	93.7	95.7	96.5	98.0	98.9	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1
GE 900		82.0	85.7	93.7	95.7	96.5	98.0	98.9	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1
GE 800		82.0	85.7	93.7	95.7	96.6	98.1	99.0	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2
GE 700		92.0	85.7	93.8	96.1	97.0	98.4	99.3	99.4	99.4	99.4	99.6	99.6	99.6	99.6	99.6
GE 600		82.0	85.7	93.8	96.1	97.0	98.4	99.4	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7
GE 500		82.0	85.7	93.8	96.1	97.0	98.4	99.4	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7
GE 400		82.0	85.7	93.8	96.1	97.0	98.7	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0
GE 300		82.0	85.7	93.8	96.1	97.0	98.7	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0
GE 200		82.0	85.7	93.8	96.1	97.0	98.7	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0
GE 100		82.0	85.7	93.8	96.1	97.0	98.7	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0
GE 0		82.0	85.7	93.8	96.1	97.0	98.7	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 894

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: SEP HOURS(LST): 1800-2200

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		39.1	42.4	45.7	46.7	46.7	46.7	46.7	46.7	47.0	47.0	47.0	47.0	47.0	47.0	47.0
GE 20000		45.2	49.0	53.1	54.2	54.2	54.3	54.3	54.3	54.5	54.5	54.5	54.5	54.5	54.5	54.5
GE 18000		45.7	49.6	53.7	54.7	54.7	54.8	54.8	54.8	55.1	55.1	55.1	55.1	55.1	55.1	55.1
GE 16000		45.7	49.6	53.7	54.7	54.7	54.8	54.8	54.8	55.1	55.1	55.1	55.1	55.1	55.1	55.1
GE 14000		46.1	49.9	54.0	55.1	55.1	55.2	55.2	55.2	55.4	55.4	55.4	55.4	55.4	55.4	55.4
GE 12000		46.6	50.7	54.8	55.8	55.8	56.1	56.1	56.1	56.3	56.3	56.3	56.3	56.3	56.3	56.3
GE 10000		49.6	53.6	57.9	58.9	58.9	59.1	59.2	59.2	59.4	59.4	59.4	59.4	59.4	59.4	59.4
GE 9000		50.6	54.8	59.3	60.3	60.3	60.6	60.7	60.7	60.9	60.9	60.9	60.9	60.9	60.9	60.9
GE 8000		55.1	59.4	64.3	65.5	65.5	65.7	66.1	66.2	66.4	66.4	66.5	66.5	66.5	66.5	66.5
GE 7000		58.0	62.6	67.8	69.0	69.1	69.3	69.7	69.8	70.0	70.0	70.1	70.1	70.1	70.1	70.1
GE 6000		58.5	63.3	68.4	69.7	69.9	70.2	70.7	70.8	71.0	71.0	71.1	71.1	71.1	71.1	71.1
GE 5000		60.4	65.2	70.8	72.0	72.2	72.6	73.0	73.1	73.4	73.4	73.5	73.5	73.5	73.5	73.5
GE 4500		62.2	67.1	73.0	74.3	74.5	74.8	75.4	75.5	75.7	75.7	75.8	75.8	75.8	75.8	75.8
GE 4000		68.2	73.4	80.1	81.6	81.9	82.4	83.0	83.1	83.6	83.6	83.7	83.7	83.7	83.7	83.7
GE 3500		70.7	76.1	83.6	85.7	86.1	86.7	87.5	87.6	88.1	88.1	88.3	88.3	88.3	88.3	88.3
GE 3000		71.6	77.3	86.0	88.4	88.8	89.6	90.3	90.4	90.9	90.9	91.1	91.1	91.1	91.1	91.1
GE 2500		72.0	77.6	86.6	89.6	89.9	90.7	91.6	91.7	92.1	92.2	92.5	92.5	92.5	92.5	92.5
GE 2000		72.8	78.7	88.1	91.2	91.6	92.8	93.9	94.2	94.6	94.7	94.9	94.9	94.9	94.9	94.9
GE 1800		72.8	78.7	88.2	91.3	91.9	93.1	94.3	94.5	95.1	95.2	95.4	95.4	95.4	95.4	95.4
GE 1500		72.9	78.9	88.7	91.9	92.6	94.2	95.3	95.6	96.4	96.5	96.7	96.7	96.7	96.7	96.7
GE 1200		73.3	79.2	89.3	93.1	94.0	95.7	96.9	97.3	98.1	98.2	98.5	98.7	98.7	98.7	98.7
GE 1000		73.3	79.2	89.3	93.3	94.2	96.1	97.2	97.6	98.4	98.5	98.9	99.0	99.0	99.0	99.0
GE 900		73.3	79.2	89.3	93.3	94.4	96.3	97.4	97.9	98.7	98.8	99.1	99.2	99.2	99.2	99.2
GE 800		73.3	79.2	89.3	93.3	94.6	96.5	97.6	98.1	98.9	99.0	99.3	99.4	99.4	99.4	99.4
GE 700		73.3	79.2	89.3	93.4	94.7	96.6	97.8	98.2	99.0	99.1	99.4	99.6	99.6	99.6	99.6
GE 600		73.3	79.2	89.3	93.4	94.7	96.7	97.9	98.3	99.1	99.2	99.6	99.7	99.7	99.7	99.7
GE 500		73.3	79.2	89.3	93.4	94.7	96.7	97.9	98.3	99.1	99.2	99.6	99.7	99.7	99.7	99.7
GE 400		73.3	79.2	89.3	93.4	94.7	96.7	98.0	98.4	99.2	99.3	99.7	99.8	99.8	99.8	99.8
GE 300		73.3	79.2	89.3	93.4	94.7	96.7	98.1	98.5	99.4	99.6	99.9	100.0	100.0	100.0	100.0
GE 200		73.3	79.2	89.3	93.4	94.7	96.7	98.1	98.5	99.4	99.6	99.9	100.0	100.0	100.0	100.0
GE 100		73.3	79.2	89.3	93.4	94.7	96.7	98.1	98.5	99.4	99.6	99.9	100.0	100.0	100.0	100.0
GE 0		73.3	79.2	89.3	93.4	94.7	96.7	98.1	98.5	99.4	99.6	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 840

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR PERIOD OF RECORD: 77-86
MONTH: SEP HOURS(LST): 2100-2300

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	29.8	35.5	44.5	48.1	48.7	50.5	51.0	51.0	51.6	51.6	52.2	52.5	52.5	52.5	52.9	
GE 20000	32.6	38.6	48.4	52.2	52.8	54.8	55.7	55.8	56.5	56.7	57.3	57.6	57.7	57.7	58.0	
GE 18000	33.0	38.9	48.7	52.6	53.2	55.2	56.1	56.2	56.9	57.1	57.7	58.0	58.2	58.2	58.5	
GE 16000	33.0	38.9	48.7	52.6	53.2	55.2	56.1	56.2	56.9	57.1	57.7	58.0	58.2	58.2	58.5	
GE 14000	33.0	39.1	48.9	52.9	53.4	55.5	56.4	56.5	57.1	57.4	57.9	58.3	58.4	58.4	58.7	
GE 12000	33.5	39.8	49.6	53.7	54.2	56.4	57.3	57.4	58.0	58.3	58.8	59.3	59.4	59.4	59.8	
GE 10000	36.2	43.2	53.1	57.4	57.9	60.3	61.2	61.3	62.0	62.2	62.8	63.2	63.4	63.4	63.9	
GE 9000	36.7	43.9	53.8	58.0	58.6	61.0	61.9	62.0	62.7	62.9	63.4	63.9	64.1	64.1	64.6	
GE 8000	39.5	46.7	56.8	61.2	61.8	64.1	65.2	65.4	66.4	66.7	67.3	67.7	67.9	67.9	68.4	
GE 7000	42.1	49.6	60.5	64.9	65.5	67.8	69.1	69.2	70.3	70.6	71.2	71.7	71.9	71.9	72.3	
GE 6000	43.0	50.6	61.5	65.9	66.6	69.1	70.3	70.4	71.5	71.9	72.4	72.9	73.1	73.1	73.6	
GE 5000	44.5	52.6	63.9	68.4	69.1	71.7	73.0	73.1	74.2	74.6	75.1	75.6	75.8	75.8	76.3	
GE 4500	45.6	53.7	65.2	69.9	70.5	73.1	74.5	74.7	75.8	76.2	76.7	77.2	77.4	77.4	77.8	
GE 4000	48.4	56.9	69.5	74.7	75.6	78.2	79.8	80.0	81.3	81.7	82.2	82.7	83.0	83.0	83.5	
GE 3500	49.7	58.6	72.0	77.8	78.7	81.4	83.1	83.4	84.7	85.0	85.6	86.1	86.4	86.4	86.8	
GE 3000	51.2	60.5	75.0	82.0	83.0	86.2	88.1	88.3	89.7	90.0	90.6	91.0	91.3	91.3	91.8	
GE 2500	51.4	60.9	75.8	82.8	83.8	87.3	89.2	89.4	90.8	91.1	91.7	92.1	92.5	92.5	92.9	
GE 2000	52.2	61.8	76.8	83.8	84.9	89.2	91.1	91.3	92.9	93.3	93.8	94.3	94.6	94.6	95.1	
GE 1800	52.8	62.3	77.5	84.5	85.7	90.0	91.9	92.1	93.7	94.0	94.6	95.1	95.4	95.4	95.8	
GE 1500	53.2	62.9	78.3	85.4	86.6	91.0	92.9	93.1	94.7	95.1	95.6	96.1	96.4	96.4	96.9	
GE 1200	53.3	63.2	78.6	85.9	87.2	91.9	93.8	94.0	95.6	96.0	96.5	97.0	97.3	97.3	97.8	
GE 1000	53.3	63.2	78.6	85.9	87.2	92.1	94.0	94.3	95.8	96.2	96.7	97.2	97.5	97.5	98.0	
GE 900	53.3	63.2	78.6	86.2	87.4	92.4	94.3	94.5	96.1	96.4	97.0	97.4	97.8	97.8	98.2	
GE 800	53.3	63.2	78.6	86.3	87.5	92.5	94.4	94.6	96.2	96.5	97.1	97.5	97.9	97.9	98.3	
GE 700	53.3	63.2	78.6	86.4	87.6	92.6	94.5	94.7	96.3	96.6	97.2	97.6	98.0	98.0	98.4	
GE 600	53.3	63.2	78.6	86.5	87.7	92.8	94.7	94.9	96.5	96.9	97.4	97.9	98.2	98.2	98.7	
GE 500	53.3	63.2	78.6	86.5	87.7	92.8	94.8	95.2	96.7	97.1	97.6	98.1	98.4	98.4	98.9	
GE 400	53.3	63.2	78.6	86.5	87.7	92.8	94.8	95.2	96.7	97.1	97.6	98.1	98.4	98.4	98.9	
GE 300	53.3	63.2	78.6	86.5	87.7	92.8	94.8	95.2	96.7	97.2	97.9	98.3	98.8	98.8	99.2	
GE 200	53.3	63.2	78.6	86.5	87.7	92.8	94.8	95.2	96.9	97.4	98.1	98.5	99.0	99.0	99.4	
GE 100	53.3	63.2	78.6	86.5	87.7	92.8	94.8	95.2	96.9	97.4	98.1	98.5	99.0	99.1	99.8	
GE 0	53.3	63.2	78.6	86.5	87.7	92.8	94.8	95.2	96.9	97.4	98.1	98.5	99.1	99.3	100.0	

TOTAL NUMBER OF OBSERVATIONS: 889

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: SEP HOURS(LST): ALL

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		23.9	27.0	33.2	35.7	36.2	37.8	38.8	39.2	40.0	40.3	40.6	41.2	41.8	42.3	43.4
GE 20000		27.1	30.5	37.2	39.9	40.5	42.2	43.3	43.8	44.7	45.0	45.3	46.0	46.7	47.3	48.5
GE 18000		27.5	31.0	37.7	40.3	41.0	42.7	43.8	44.3	45.2	45.5	45.9	46.5	47.2	47.8	49.0
GE 16000		27.5	31.0	37.7	40.4	41.0	42.7	43.9	44.3	45.2	45.5	45.9	46.5	47.2	47.8	49.0
GE 14000		27.6	31.1	37.9	40.5	41.2	42.8	44.0	44.5	45.4	45.7	46.1	46.7	47.4	48.0	49.2
GE 12000		28.1	31.7	38.6	41.2	41.9	43.6	44.8	45.3	46.2	46.5	46.9	47.5	48.2	48.8	50.1
GE 10000		29.9	33.8	41.0	44.0	44.7	46.6	47.8	48.2	49.2	49.5	49.8	50.5	51.3	51.9	53.1
GE 9000		30.4	34.5	41.6	44.8	45.4	47.4	48.6	49.1	50.1	50.4	50.7	51.4	52.2	52.8	54.0
GE 8000		33.2	37.5	45.4	48.6	49.3	51.5	52.9	53.4	54.4	54.7	55.1	55.8	56.5	57.1	58.4
GE 7000		34.8	39.2	47.4	50.7	51.4	53.7	55.1	55.6	56.7	57.0	57.4	58.1	58.8	59.4	60.7
GE 6000		35.3	39.8	48.0	51.4	52.1	54.5	55.9	56.4	57.5	57.8	58.2	58.9	59.6	60.3	61.5
GE 5000		37.2	41.8	50.4	54.0	54.7	57.3	58.7	59.3	60.3	60.7	61.0	61.7	62.5	63.1	64.4
GE 4500		38.3	43.0	51.9	55.7	56.5	59.1	60.6	61.1	62.2	62.6	63.0	63.7	64.4	65.0	66.3
GE 4000		42.2	47.3	57.2	61.3	62.3	65.1	66.7	67.3	68.5	68.9	69.3	70.1	70.8	71.5	72.8
GE 3500		44.5	49.8	60.2	64.6	65.6	68.5	70.2	70.8	72.1	72.4	72.9	73.7	74.5	75.1	76.4
GE 3000		48.0	53.5	64.9	70.0	71.0	74.3	76.1	76.8	78.1	78.5	79.0	79.8	80.6	81.3	82.6
GE 2500		49.5	55.2	67.2	72.4	73.5	77.0	78.9	79.6	80.9	81.3	81.8	82.6	83.4	84.1	85.5
GE 2000		51.4	57.4	70.3	75.7	77.0	80.9	83.0	83.8	85.2	85.6	86.1	86.9	87.7	88.4	89.7
GE 1800		51.7	57.7	70.7	76.2	77.5	81.5	83.7	84.4	85.9	86.2	86.7	87.6	88.4	89.1	90.4
GE 1500		52.6	58.7	71.9	77.6	79.1	83.3	85.6	86.3	87.8	88.2	88.7	89.5	90.4	91.0	92.4
GE 1200		53.1	59.3	72.7	78.8	80.6	85.0	87.3	88.1	89.7	90.1	90.6	91.5	92.3	93.0	94.4
GE 1000		53.2	59.4	73.1	79.3	81.1	85.7	88.2	89.0	90.7	91.0	91.6	92.5	93.3	94.0	95.3
GE 900		53.2	59.4	73.1	79.4	81.3	85.9	88.4	89.2	90.9	91.3	91.9	92.7	93.6	94.2	95.6
GE 800		53.2	59.5	73.2	79.6	81.5	86.1	88.6	89.4	91.2	91.6	92.1	93.0	93.9	94.5	95.9
GE 700		53.2	59.5	73.4	79.9	81.8	86.5	89.0	89.8	91.7	92.0	92.6	93.5	94.3	95.0	96.4
GE 600		53.2	59.5	73.4	80.0	81.9	86.6	89.2	90.0	91.8	92.2	92.8	93.7	94.6	95.3	96.6
GE 500		53.3	59.6	73.5	80.1	82.1	86.8	89.4	90.4	92.2	92.6	93.2	94.2	95.1	95.7	97.1
GE 400		53.3	59.6	73.5	80.1	82.1	86.9	89.5	90.5	92.5	92.9	93.5	94.5	95.4	96.1	97.5
GE 300		53.3	59.6	73.5	80.1	82.1	86.9	89.5	90.5	92.5	92.9	93.6	94.6	95.6	96.6	98.3
GE 200		53.3	59.6	73.5	80.1	82.1	86.9	89.5	90.6	92.6	93.0	93.7	94.8	95.8	96.9	99.1
GE 100		53.3	59.6	73.5	80.1	82.1	86.9	89.5	90.6	92.6	93.0	93.7	94.8	96.0	97.2	99.7
GE 0		53.3	59.6	73.5	80.1	82.1	86.9	89.5	90.6	92.6	93.1	93.8	94.9	96.1	97.3	100.0

TOTAL NUMBER OF OBSERVATIONS: 7144

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: OCT HOURS(LST): 0000-0200

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GE 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		11.0	13.8	20.6	23.7	24.9	27.3	29.2	29.9	32.3	32.5	33.3	33.8	35.8	37.7	39.0
GE 20000		11.9	15.1	22.4	25.6	26.8	30.4	32.5	33.3	35.6	35.8	36.6	37.6	39.6	41.7	42.9
GE 18000		11.9	15.1	22.4	25.7	26.9	30.5	32.6	33.4	35.7	36.0	36.7	37.7	39.7	41.8	43.1
GE 16000		11.9	15.1	22.4	25.7	26.9	30.5	32.6	33.4	35.7	36.0	36.7	37.7	39.7	41.8	43.1
GE 14000		11.9	15.1	22.4	25.7	26.9	30.5	32.6	33.4	35.7	36.0	36.7	37.7	39.7	41.8	43.1
GE 12000		12.1	15.2	22.7	26.0	27.3	30.9	33.0	33.8	36.2	36.4	37.1	38.1	40.2	42.2	43.5
GE 10000		12.7	16.1	24.0	27.9	29.2	32.9	35.2	36.0	38.3	38.5	39.3	40.3	42.3	44.3	45.7
GE 9000		12.7	16.1	24.1	28.1	29.5	33.3	35.5	36.3	38.9	39.1	39.8	40.8	42.8	44.9	46.3
GE 8000		15.9	20.0	28.7	33.0	34.6	38.5	40.8	41.6	44.1	44.3	45.1	46.1	48.1	50.2	51.6
GE 7000		17.2	21.5	31.0	36.0	37.5	41.4	43.8	44.6	47.3	47.5	48.2	49.2	51.2	53.3	54.7
GE 6000		17.2	21.5	31.1	36.1	37.6	41.6	43.9	44.7	47.4	47.6	48.3	49.3	51.3	53.4	54.8
GE 5000		18.8	23.7	33.6	39.2	40.7	44.7	47.1	47.9	50.6	50.8	51.6	52.5	54.6	56.6	58.0
GE 4500		20.2	25.5	35.8	41.4	42.9	46.9	49.4	50.2	52.9	53.1	53.8	54.8	56.8	58.9	60.3
GE 4000		22.6	28.2	39.4	44.9	46.4	50.7	53.2	53.9	56.6	56.8	57.7	58.7	60.9	63.0	64.5
GE 3500		23.1	29.0	39.8	45.7	47.6	52.2	54.7	55.4	58.1	58.3	59.2	60.2	62.5	64.6	66.1
GE 3000		25.6	31.8	43.6	49.7	51.7	56.3	58.9	59.6	62.8	63.2	64.0	65.0	67.7	69.8	71.3
GE 2500		27.3	33.7	46.0	52.3	54.4	59.0	61.6	62.3	65.4	65.9	66.8	67.8	70.5	72.6	74.1
GE 2000		29.3	35.6	48.8	55.3	57.6	62.3	65.3	66.1	69.2	69.6	70.6	71.6	74.3	76.3	77.8
GE 1800		29.7	36.1	49.6	56.4	58.9	63.6	66.6	67.4	70.7	71.2	72.1	73.1	75.8	77.8	79.3
GE 1500		31.8	38.4	52.5	59.8	62.4	67.3	70.3	71.0	74.8	75.2	76.2	77.2	79.9	81.9	83.4
GE 1200		32.8	39.6	53.8	61.6	64.2	69.1	72.2	73.0	76.7	77.2	78.1	79.1	81.8	83.9	85.4
GE 1000		32.8	39.8	54.3	62.1	64.8	70.2	73.8	74.8	78.7	79.1	80.1	81.1	83.7	85.8	87.3
GE 900		32.8	39.8	54.6	62.4	65.1	70.5	74.2	75.1	79.1	79.5	80.7	81.7	84.4	86.4	87.9
GE 800		32.9	40.0	55.2	63.4	66.1	71.5	75.2	76.4	80.4	80.8	82.1	83.1	85.8	87.8	89.3
GE 700		32.9	40.0	55.2	63.4	66.1	71.5	75.3	76.7	80.7	81.2	82.5	83.4	86.1	88.2	89.7
GE 600		32.9	40.0	55.3	63.5	66.5	71.9	75.9	77.5	81.5	81.9	83.5	84.5	87.2	89.2	90.7
GE 500		33.0	40.2	55.5	63.7	66.7	72.1	76.1	77.7	82.0	82.5	84.1	85.0	87.7	89.9	91.4
GE 400		33.0	40.2	55.5	63.7	66.7	72.1	76.2	77.9	82.5	82.9	84.5	85.5	88.2	90.3	91.8
GE 300		33.0	40.2	55.5	63.7	66.7	72.1	76.4	78.1	82.8	83.4	85.0	86.0	88.9	91.1	92.8
GE 200		33.0	40.2	55.5	63.7	66.7	72.1	76.4	78.1	82.8	83.6	85.6	86.5	89.7	91.9	94.4
GE 100		33.0	40.2	55.5	63.7	66.7	72.1	76.4	78.1	82.8	83.6	85.6	86.8	90.1	92.6	96.8
GE 0		33.0	40.2	55.5	63.7	66.7	72.1	76.4	78.1	82.8	83.6	85.6	86.8	90.1	92.6	100.0

TOTAL NUMBER OF OBSERVATIONS: 929

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: OCT HOURS(LST): 0300-0500

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		9.2	11.0	16.3	18.9	19.7	22.4	24.6	25.4	27.0	27.2	28.6	29.4	32.2	33.0	37.3
GE 20000		9.6	11.8	17.6	20.2	21.1	24.1	26.6	27.3	29.1	29.4	30.9	31.7	34.6	35.5	39.8
GE 18000		9.6	11.8	17.6	20.2	21.1	24.1	26.6	27.3	29.1	29.4	30.9	31.7	34.6	35.5	39.8
GE 16000		9.6	11.8	17.6	20.2	21.1	24.1	26.6	27.3	29.1	29.4	30.9	31.7	34.6	35.5	39.8
GE 14000		9.6	11.8	17.6	20.3	21.2	24.2	26.7	27.4	29.4	29.6	31.1	31.9	34.8	35.7	40.0
GE 12000		10.2	12.5	18.3	21.0	21.8	24.8	27.3	28.1	30.0	30.2	31.7	32.6	35.5	36.3	40.6
GE 10000		10.6	13.3	19.6	22.9	23.9	26.9	29.4	30.1	32.5	32.8	34.3	35.2	38.1	38.9	43.2
GE 9000		10.6	13.3	19.6	22.9	23.9	26.9	29.4	30.1	32.6	32.9	34.4	35.3	38.2	39.0	43.3
GE 8000		12.6	15.4	22.3	25.8	26.8	30.3	33.0	33.8	36.3	36.7	38.2	39.0	41.9	42.8	47.1
GE 7000		13.1	16.4	23.4	27.4	28.5	32.3	35.1	35.8	38.4	38.7	40.2	41.1	44.0	44.8	49.1
GE 6000		13.1	16.0	23.4	27.4	28.5	32.3	35.1	35.8	38.4	38.7	40.2	41.1	44.0	44.8	49.1
GE 5000		14.4	17.4	24.9	29.6	30.6	34.8	37.6	38.4	41.0	41.4	42.9	43.8	46.8	47.6	51.9
GE 4500		16.6	19.9	27.5	32.3	33.3	37.5	40.3	41.1	43.7	44.1	45.6	46.5	49.5	50.3	54.6
GE 4000		18.8	22.5	31.3	37.1	38.2	43.0	45.8	46.7	49.4	49.8	51.3	52.3	55.5	56.3	60.8
GE 3500		19.6	23.2	32.4	38.3	39.4	44.5	47.3	48.2	50.9	51.3	52.8	53.8	57.3	58.2	62.7
GE 3000		22.0	26.5	36.3	43.0	44.3	50.4	53.2	54.1	57.2	57.6	59.1	60.1	63.7	64.6	69.1
GE 2500		23.4	28.2	38.4	45.2	46.6	52.7	55.5	56.3	59.6	60.1	61.6	62.6	66.1	67.1	71.6
GE 2000		25.5	30.5	41.1	48.1	49.7	56.0	59.0	60.2	63.4	64.0	65.5	66.5	70.0	71.0	75.5
GE 1800		25.7	30.8	41.5	48.5	50.1	56.5	59.5	60.6	63.9	64.4	66.0	67.0	70.5	71.5	76.0
GE 1500		26.9	31.9	43.8	51.2	52.8	59.4	62.5	63.9	67.3	67.8	69.6	70.8	74.3	75.3	79.8
GE 1200		28.3	33.3	45.5	53.3	55.3	61.8	65.2	66.6	70.0	70.5	72.3	73.4	77.1	78.1	82.6
GE 1000		28.7	34.1	46.2	54.1	56.1	62.8	66.5	67.8	71.4	72.0	73.9	75.1	78.7	79.7	84.2
GE 900		28.8	34.2	46.6	54.7	56.8	63.4	67.1	68.6	72.2	72.8	74.6	75.8	79.5	80.4	84.9
GE 800		29.0	34.6	47.6	55.7	57.7	64.4	68.2	69.7	73.2	73.9	75.7	76.9	80.5	81.5	86.0
GE 700		29.0	34.6	47.6	55.8	57.8	64.6	68.7	70.3	74.0	74.6	76.5	77.7	81.4	82.4	86.9
GE 600		29.0	34.6	47.6	55.9	58.3	65.1	69.2	71.0	74.7	75.4	77.2	78.5	82.2	83.1	87.6
GE 500		29.0	34.6	47.7	56.2	58.7	65.5	69.8	71.5	75.7	76.3	78.3	79.6	83.2	84.2	88.7
GE 400		29.0	34.6	47.7	56.2	58.7	65.5	69.8	72.0	76.2	77.0	79.0	80.3	84.0	84.9	89.6
GE 300		29.0	34.6	47.7	56.2	58.7	65.5	69.8	72.0	77.1	77.8	79.9	81.2	85.3	86.2	91.4
GE 200		29.0	34.6	47.7	56.2	58.7	65.5	69.9	72.5	77.5	78.3	80.6	82.0	87.0	88.2	94.8
GE 100		29.0	34.6	47.7	56.2	58.7	65.5	69.9	72.5	77.7	78.5	81.0	82.4	87.7	89.2	97.1
GE 0		29.0	34.6	47.7	56.2	58.7	65.5	69.9	72.5	77.7	78.5	81.0	82.4	87.7	89.5	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106A70 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: OCT HOURS (LST): 0600-0800

CEILING IN FEET		VISIBILITY IN HUNDREDS OF METERS														
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		5.4	6.5	9.7	12.4	13.4	14.5	15.8	16.0	16.9	17.2	18.0	19.4	21.0	22.3	26.3
GE 20000		6.3	7.5	11.2	14.3	15.6	16.9	18.6	18.8	20.3	20.6	21.5	22.9	25.2	26.5	30.8
GE 18000		6.3	7.6	11.4	14.5	15.8	17.2	18.9	19.1	20.8	21.1	21.9	23.3	25.7	27.3	31.6
GE 16000		6.3	7.6	11.4	14.5	15.8	17.2	18.9	19.1	20.8	21.1	21.9	23.3	25.7	27.3	31.6
GE 14000		6.3	7.6	11.4	14.5	15.8	17.2	18.9	19.1	20.8	21.1	21.9	23.3	25.7	27.3	31.6
GE 12000		7.0	8.3	12.6	15.7	17.1	18.5	20.2	20.4	22.0	22.4	23.2	24.6	27.0	28.7	33.0
GE 10000		7.3	8.6	13.8	17.2	18.7	20.1	22.3	22.5	24.5	24.8	25.7	27.1	29.6	31.3	35.6
GE 9000		7.3	8.6	13.8	17.2	18.8	20.2	22.4	22.6	24.6	24.9	25.8	27.2	29.7	31.4	35.7
GE 8000		8.8	10.1	15.9	19.9	21.6	23.1	25.5	25.8	28.0	28.4	29.2	30.6	33.2	34.9	39.4
GE 7000		9.7	11.2	18.1	22.2	24.1	26.0	28.6	28.9	31.1	31.5	32.5	33.9	36.5	38.2	42.9
GE 6000		9.8	11.3	18.3	22.6	24.5	26.5	29.0	29.4	31.5	31.9	32.9	34.3	36.9	38.6	43.3
GE 5000		10.9	12.5	19.7	24.8	26.8	28.9	31.5	31.8	34.0	34.4	35.4	36.8	39.4	41.1	45.8
GE 4500		12.0	14.1	21.5	26.8	28.7	30.9	33.5	33.9	36.1	36.7	37.6	39.0	41.6	43.3	48.1
GE 4000		14.7	16.6	25.1	30.6	32.6	35.1	38.0	38.3	40.5	41.2	42.2	43.7	46.2	48.0	52.7
GE 3500		15.6	17.8	26.3	31.9	33.9	36.6	39.5	39.8	42.0	42.8	43.8	45.4	48.0	49.8	54.5
GE 3000		17.3	19.7	28.8	35.4	37.5	40.3	44.0	44.4	47.2	48.1	49.0	50.6	53.3	55.3	60.0
GE 2500		18.2	20.8	30.4	37.3	39.6	42.6	46.5	46.9	49.9	50.8	51.7	53.4	56.1	58.1	62.8
GE 2000		20.8	23.4	33.5	40.4	42.7	45.9	50.2	50.6	53.9	54.9	55.9	57.7	60.4	62.4	67.1
GE 1800		21.1	23.8	34.4	41.4	43.7	47.0	51.4	51.8	55.1	56.1	57.1	58.9	61.6	63.5	68.3
GE 1500		23.9	26.7	38.4	45.8	48.2	52.0	57.0	57.4	60.6	61.8	62.8	64.6	67.3	69.2	74.0
GE 1200		24.8	27.6	39.8	47.4	49.9	53.9	59.0	59.5	63.1	64.3	65.4	67.2	69.9	71.8	76.6
GE 1000		25.3	28.3	41.1	48.7	51.4	55.4	60.5	61.1	64.7	65.9	67.2	69.0	71.8	73.8	78.5
GE 900		25.4	28.4	41.7	49.6	52.4	56.3	61.5	62.0	65.7	66.9	68.2	70.0	72.8	74.7	79.5
GE 800		25.5	28.6	42.5	50.5	53.3	57.4	62.6	63.1	67.2	68.4	69.8	71.7	74.5	76.5	81.2
GE 700		25.5	28.7	42.7	51.2	54.6	59.5	64.9	65.5	69.7	70.9	72.3	74.2	77.0	78.9	83.7
GE 600		25.7	29.0	43.1	51.7	55.3	60.1	65.6	66.3	70.9	72.0	73.4	75.4	78.2	80.1	84.8
GE 500		25.7	29.0	43.2	51.9	55.6	60.4	66.2	66.8	71.5	73.0	74.6	76.7	79.5	81.5	86.7
GE 400		25.7	29.0	43.2	51.9	55.7	60.5	66.5	67.1	71.9	73.7	75.5	77.5	80.4	82.6	87.7
GE 300		25.7	29.0	43.3	52.3	56.0	60.9	66.8	67.6	72.6	74.4	76.3	78.4	81.5	83.7	89.6
GE 200		25.7	29.0	43.3	52.3	56.1	61.0	66.9	67.7	72.7	74.6	76.6	78.9	82.0	85.4	94.4
GE 100		25.7	29.0	43.3	52.3	56.1	61.0	66.9	67.7	72.7	74.6	76.8	79.0	83.3	86.0	98.8
GE 0		25.7	29.0	43.3	52.3	56.1	61.0	66.9	67.7	72.7	74.6	76.8	79.0	83.3	86.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: OCT HOURS(LST): 0900-1100

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		10.9	12.8	18.6	20.6	21.4	22.3	22.8	22.9	23.4	23.5	24.2	24.7	25.4	25.7	26.6
GE 20000		12.9	15.5	22.3	24.5	25.3	26.7	27.3	27.4	28.1	28.2	28.8	29.4	30.0	30.3	31.2
GE 18000		13.4	16.1	23.0	25.3	26.2	27.6	28.3	28.4	29.0	29.1	29.8	30.3	31.0	31.3	32.2
GE 16000		13.4	16.1	23.0	25.3	26.2	27.6	28.3	28.4	29.0	29.1	29.8	30.3	31.0	31.3	32.2
GE 14000		13.4	16.1	23.0	25.4	26.3	27.7	28.4	28.5	29.1	29.2	29.9	30.4	31.1	31.4	32.3
GE 12000		14.4	17.1	24.2	26.6	27.7	29.1	29.8	29.9	30.5	30.6	31.3	31.8	32.5	32.8	33.7
GE 10000		15.5	18.3	26.5	28.9	30.1	31.6	32.4	32.6	33.2	33.3	34.0	34.5	35.2	35.5	36.3
GE 9000		15.6	18.4	26.8	29.4	30.5	32.2	32.9	33.1	33.8	33.9	34.5	35.1	35.7	36.0	36.9
GE 8000		17.7	20.9	30.2	32.9	34.2	36.0	36.8	37.0	37.6	37.7	38.4	38.9	39.6	39.9	40.8
GE 7000		18.6	21.8	31.6	34.8	36.2	38.5	39.2	39.5	40.1	40.2	40.9	41.4	42.2	42.5	43.3
GE 6000		18.6	21.8	31.8	34.8	36.2	38.5	39.2	39.5	40.1	40.2	40.9	41.4	42.2	42.5	43.3
GE 5000		19.7	22.9	33.3	36.5	37.8	40.2	41.1	41.3	42.0	42.2	42.8	43.3	44.1	44.4	45.3
GE 4500		19.9	23.2	33.8	36.9	38.3	40.8	41.6	41.8	42.6	42.9	43.5	44.1	44.8	45.2	46.0
GE 4000		22.3	25.6	37.0	40.2	41.6	44.3	45.6	45.9	46.7	47.0	47.6	48.2	48.9	49.2	50.1
GE 3500		23.1	26.6	38.2	41.5	43.0	45.9	47.2	47.5	48.7	49.0	49.7	50.2	51.0	51.3	52.2
GE 3000		27.8	31.3	44.1	48.6	50.2	53.7	55.1	55.5	56.9	57.3	58.0	58.5	59.2	59.6	60.8
GE 2500		29.9	33.4	46.9	51.6	53.2	57.0	58.4	58.8	60.2	60.6	61.3	61.8	62.6	62.9	64.1
GE 2000		33.5	37.6	51.4	56.6	58.7	62.5	64.7	65.3	66.9	67.4	68.2	68.7	69.5	69.8	71.0
GE 1800		33.8	37.8	51.7	57.1	59.4	63.1	65.4	65.9	67.5	68.1	68.8	69.4	70.1	70.4	71.6
GE 1500		36.0	40.2	55.1	60.8	63.0	66.9	69.5	70.0	71.6	72.2	72.9	73.4	74.2	74.5	75.7
GE 1200		37.0	42.0	58.1	64.2	66.8	71.0	73.7	74.2	75.8	76.3	77.1	77.6	78.4	78.7	79.9
GE 1000		38.1	43.2	59.6	66.1	68.7	73.1	75.9	76.5	78.1	78.6	79.4	79.9	80.6	81.0	82.2
GE 900		38.1	43.2	60.5	67.2	69.8	74.5	77.3	77.8	79.5	80.3	81.1	81.6	82.4	82.7	83.9
GE 800		38.3	43.4	60.9	67.5	70.2	75.1	78.0	78.5	80.5	81.5	82.3	82.8	83.5	83.9	85.1
GE 700		38.3	43.5	61.4	68.3	71.5	76.8	80.1	80.6	82.8	83.8	84.5	85.2	85.9	86.2	87.4
GE 600		38.3	43.5	61.7	68.9	72.3	77.7	81.3	81.8	84.0	84.9	85.7	86.3	87.1	87.4	88.6
GE 500		38.3	43.5	61.7	68.9	72.7	78.3	82.4	82.9	85.4	86.3	87.2	88.1	89.1	89.5	90.6
GE 400		38.3	43.5	61.7	68.9	72.9	78.6	82.8	83.7	86.6	88.0	89.0	89.9	91.3	91.6	92.8
GE 300		38.3	43.5	61.8	69.0	73.0	78.8	83.0	83.9	87.1	88.6	89.7	90.6	92.7	93.3	94.7
GE 200		38.3	43.5	61.8	69.0	73.0	78.9	83.1	84.0	87.2	88.8	90.0	91.2	93.9	95.1	97.3
GE 100		38.3	43.5	61.8	69.0	73.0	78.9	83.1	84.0	87.2	88.8	90.0	91.2	94.1	95.6	99.9
GE 0		38.3	43.5	61.8	69.0	73.0	78.9	83.1	84.0	87.2	88.8	90.0	91.2	94.1	95.6	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: OCT HOURS(LST): 1200-1400

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		21.9	24.3	29.4	30.5	30.8	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3
GE 20000		26.6	29.0	34.9	36.5	36.8	37.3	37.3	37.3	37.4	37.4	37.4	37.4	37.4	37.4	37.4
GE 18000		27.5	30.1	36.0	37.5	37.8	38.4	38.4	38.4	38.5	38.5	38.5	38.5	38.5	38.5	38.5
GE 16000		27.5	30.1	36.0	37.5	37.8	38.4	38.4	38.4	38.5	38.5	38.5	38.5	38.5	38.5	38.5
GE 14000		27.6	30.2	36.1	37.6	38.0	38.5	38.5	38.5	38.6	38.6	38.6	38.6	38.6	38.6	38.6
GE 12000		28.2	30.8	36.8	38.5	38.8	39.4	39.4	39.4	39.5	39.5	39.5	39.5	39.5	39.5	39.5
GE 10000		29.9	32.5	38.7	40.5	40.9	41.7	41.7	41.7	41.8	41.8	41.8	41.8	41.8	41.8	41.8
GE 9000		30.3	32.9	39.2	41.2	41.5	42.4	42.4	42.4	42.5	42.5	42.5	42.5	42.5	42.5	42.5
GE 8000		32.8	35.5	42.0	44.2	44.5	45.6	45.6	45.6	45.7	45.7	45.7	45.7	45.7	45.7	45.7
GE 7000		34.9	37.6	44.7	47.3	47.6	48.7	48.7	48.7	48.8	48.8	48.8	48.8	48.8	48.8	48.8
GE 6000		35.2	37.8	44.9	47.5	47.8	48.9	48.9	48.9	49.0	49.0	49.0	49.0	49.0	49.0	49.0
GE 5000		37.1	39.9	47.0	49.8	50.1	51.2	51.2	51.2	51.3	51.3	51.3	51.3	51.3	51.3	51.3
GE 4500		38.1	40.9	48.0	50.8	51.1	52.2	52.2	52.2	52.3	52.3	52.3	52.3	52.3	52.3	52.3
GE 4000		42.4	45.4	53.5	56.8	57.2	58.3	58.3	58.3	58.5	58.5	58.5	58.5	58.5	58.5	58.5
GE 3500		46.2	49.4	58.0	61.2	61.6	62.8	63.0	63.0	63.2	63.2	63.2	63.2	63.2	63.2	63.2
GE 3000		52.7	55.9	65.9	69.4	69.8	71.2	71.4	71.4	71.6	71.6	71.7	71.7	71.7	71.7	71.7
GE 2500		55.3	58.5	69.2	72.7	73.1	74.5	74.7	74.7	74.9	74.9	75.1	75.1	75.1	75.1	75.1
GE 2000		58.6	62.3	73.5	77.5	78.0	79.4	79.6	79.8	80.0	80.0	80.1	80.1	80.1	80.1	80.1
GE 1800		59.6	63.7	75.4	79.6	80.1	81.6	81.8	82.0	82.3	82.3	82.4	82.4	82.4	82.4	82.4
GE 1500		62.4	66.8	79.1	83.5	84.1	85.7	86.0	86.3	86.6	86.6	86.7	86.7	86.7	86.7	86.7
GE 1200		62.9	67.4	81.0	86.0	86.6	88.5	89.5	89.8	90.0	90.0	90.1	90.1	90.1	90.1	90.1
GE 1000		63.2	68.0	81.7	87.4	88.0	90.3	91.4	91.7	91.9	91.9	92.3	92.3	92.3	92.3	92.3
GE 900		63.2	68.0	82.2	87.8	88.4	90.8	91.8	92.2	92.4	92.4	92.7	92.7	92.7	92.7	92.7
GE 800		63.2	68.0	82.4	88.6	89.1	92.0	93.3	94.0	94.2	94.2	94.5	94.5	94.5	94.5	94.5
GE 700		63.2	68.0	82.7	88.9	89.5	92.7	94.1	94.7	95.4	95.4	95.7	95.7	95.7	95.7	95.7
GE 600		63.2	68.0	82.9	89.1	89.7	93.2	95.3	95.9	96.6	96.6	96.9	96.9	96.9	96.9	96.9
GE 500		63.2	68.0	82.9	89.2	89.8	93.7	95.9	96.6	97.5	97.5	97.8	97.8	97.8	97.8	97.8
GE 400		63.2	68.0	82.9	89.5	90.1	94.2	96.6	97.2	98.2	98.4	98.7	98.8	98.8	98.8	98.8
GE 300		63.2	68.0	82.9	89.5	90.1	94.2	96.7	97.5	98.6	98.9	99.4	99.5	99.6	99.6	99.6
GE 200		63.2	68.0	82.9	89.5	90.1	94.2	96.7	97.5	98.6	98.9	99.5	99.6	100.0	100.0	100.0
GE 100		63.2	68.0	82.9	89.5	90.1	94.2	96.7	97.5	98.6	98.9	99.5	99.6	100.0	100.0	100.0
GE 0		63.2	68.0	82.9	89.5	90.1	94.2	96.7	97.5	98.6	98.9	99.5	99.6	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10687C STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: OCT HOURS(LST): 1500-1700

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		30.0	32.6	36.6	38.7	36.7	38.8	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0
GE 20000		35.1	38.1	43.1	45.7	45.8	45.9	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
GE 18000		35.7	38.8	44.0	46.6	46.7	46.8	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
GE 16000		35.7	38.8	44.0	46.6	46.7	46.8	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
GE 14000		35.7	38.8	44.0	46.6	46.7	46.8	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
GE 12000		36.6	39.7	44.8	47.4	47.5	47.6	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
GE 10000		37.0	40.1	45.8	48.5	48.6	48.7	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
GE 9000		38.1	41.2	46.9	49.6	49.7	49.8	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
GE 8000		42.2	45.7	51.5	54.2	54.3	54.5	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
GE 7000		44.3	47.8	53.9	56.7	56.8	57.1	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
GE 6000		44.7	48.3	54.4	57.2	57.3	57.6	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
GE 5000		46.6	50.3	56.6	59.6	59.7	60.0	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
GE 4500		48.0	51.7	58.3	61.3	61.4	61.9	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2
GE 4000		52.7	56.9	63.9	66.9	67.0	67.5	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
GE 3500		56.5	60.9	68.1	71.2	71.4	72.2	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
GE 3000		62.0	67.1	75.7	79.0	79.4	80.1	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
GE 2500		63.5	68.6	77.5	81.1	81.7	82.6	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
GE 2000		65.9	71.4	80.6	85.1	85.8	86.8	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
GE 1800		66.3	71.9	81.4	85.8	86.8	87.7	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
GE 1500		68.1	74.2	83.8	88.5	89.7	90.8	91.2	91.2	91.3	91.3	91.3	91.3	91.3	91.3	91.3
GE 1200		68.6	75.3	85.7	90.6	91.9	93.3	93.6	93.9	94.0	94.0	94.0	94.0	94.0	94.0	94.0
GE 1000		68.6	75.3	85.9	91.0	92.3	93.8	94.3	94.4	94.5	94.6	94.6	94.6	94.6	94.6	94.6
GE 900		68.6	75.3	85.9	91.0	92.3	93.9	94.5	94.6	94.7	94.8	94.8	94.8	94.8	94.8	94.8
GE 800		68.6	75.3	86.1	91.4	92.9	94.9	95.9	96.1	96.2	96.3	96.3	96.3	96.3	96.3	96.3
GE 700		68.6	75.3	86.7	91.9	93.4	95.7	96.8	97.0	97.2	97.3	97.3	97.3	97.3	97.3	97.3
GE 600		68.6	75.3	86.7	92.3	93.8	96.5	97.8	98.1	98.4	98.5	98.5	98.5	98.5	98.5	98.5
GE 500		68.6	75.3	86.7	92.3	93.8	96.5	97.8	98.1	98.4	98.5	98.5	98.5	98.5	98.5	98.5
GE 400		68.6	75.3	86.7	92.3	93.8	96.5	97.8	98.1	98.6	98.8	98.8	98.9	98.9	98.9	98.9
GE 300		68.6	75.3	86.7	92.3	93.8	96.5	97.8	98.1	98.6	99.1	99.2	99.4	99.4	99.4	99.4
GE 200		68.6	75.3	86.7	92.3	93.8	96.5	97.8	98.1	98.6	99.1	99.2	99.4	99.7	99.7	99.7
GE 100		68.6	75.3	86.7	92.3	93.8	96.5	97.8	98.1	98.6	99.1	99.2	99.4	99.7	99.7	99.8
GE 0		68.7	75.4	86.8	92.4	93.9	96.6	98.0	98.2	98.7	99.2	99.4	99.5	99.8	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: OCT HOURS(LST): 1800-2000

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		21.6	25.8	33.9	37.0	37.4	38.3	39.9	39.9	40.4	40.4	40.6	40.6	40.8	41.3	41.6
GE 20000		24.5	29.0	37.7	41.4	41.8	43.4	45.3	45.3	45.8	45.8	46.0	46.0	46.1	46.7	47.0
GE 18000		24.9	30.1	39.1	43.0	43.4	45.1	46.9	46.9	47.4	47.4	47.6	47.6	47.7	48.3	48.6
GE 16000		24.9	30.1	39.1	43.0	43.4	45.1	46.9	46.9	47.4	47.4	47.6	47.6	47.7	48.3	48.6
GE 14000		24.9	30.1	39.1	43.0	43.4	45.1	46.9	46.9	47.4	47.4	47.6	47.6	47.7	48.3	48.6
GE 12000		25.6	30.8	39.8	43.7	44.1	45.7	47.5	47.5	48.2	48.2	48.4	48.4	48.5	49.0	49.4
GE 10000		26.3	31.5	40.9	44.8	45.4	47.0	48.8	48.8	49.6	49.6	49.8	49.8	49.9	50.4	50.8
GE 9000		26.6	31.7	41.4	45.5	46.0	47.6	49.5	49.5	50.2	50.2	50.4	50.4	50.5	51.1	51.4
GE 8000		29.8	36.0	46.5	50.6	51.2	52.8	54.6	54.6	55.4	55.4	55.6	55.6	55.7	56.2	56.6
GE 7000		31.9	38.2	48.6	52.8	53.3	55.4	57.2	57.2	58.0	58.0	58.2	58.2	58.4	58.9	59.2
GE 6000		32.4	38.6	49.1	53.3	53.9	55.9	57.7	57.7	58.5	58.5	58.7	58.7	58.9	59.5	59.8
GE 5000		34.3	40.6	52.0	56.5	57.0	59.2	61.1	61.1	61.8	61.8	62.0	62.0	62.3	62.8	63.1
GE 4500		34.8	41.6	53.8	58.2	58.7	61.1	63.1	63.1	63.9	63.9	64.1	64.1	64.3	64.8	65.2
GE 4000		38.9	46.0	59.2	63.7	64.5	66.9	69.0	69.0	69.8	69.8	70.0	70.0	70.2	70.8	71.1
GE 3500		41.8	49.0	62.9	67.6	68.5	70.9	73.1	73.1	73.9	73.9	74.1	74.1	74.3	74.8	75.2
GE 3000		45.2	52.8	68.0	73.0	73.9	76.2	78.5	78.5	79.2	79.2	79.5	79.5	79.7	80.2	80.5
GE 2500		46.7	54.3	69.6	75.4	76.2	78.7	81.1	81.1	81.9	81.9	82.2	82.2	82.4	82.9	83.2
GE 2000		48.3	56.1	72.5	78.7	79.7	82.5	84.8	84.8	86.0	86.0	86.2	86.2	86.5	87.0	87.3
GE 1800		48.4	56.6	72.9	79.1	80.1	83.1	85.6	85.6	86.8	86.8	87.0	87.0	87.2	87.7	88.1
GE 1500		49.7	57.8	74.7	81.3	82.3	85.4	88.2	88.2	89.6	89.6	89.8	89.8	90.0	90.5	90.9
GE 1200		49.8	58.3	75.9	82.6	83.6	87.4	90.5	90.6	92.0	92.0	92.3	92.3	92.5	93.0	93.3
GE 1000		49.8	58.3	76.2	82.9	84.1	87.7	91.0	91.4	93.0	93.0	93.2	93.2	93.4	94.0	94.3
GE 900		49.8	58.3	76.3	83.0	84.2	88.2	91.6	92.0	93.7	93.7	93.9	93.9	94.1	94.6	94.9
GE 800		49.8	58.3	76.5	83.1	84.6	88.6	92.2	92.7	94.3	94.3	94.5	94.5	94.7	95.3	95.6
GE 700		49.8	58.3	76.8	83.4	84.9	89.1	93.1	93.8	95.6	95.6	95.9	95.9	96.1	96.7	97.0
GE 600		49.8	58.3	76.8	83.4	85.2	89.7	94.0	94.6	96.6	96.6	96.9	96.9	97.1	97.6	98.0
GE 500		49.8	58.3	76.8	83.4	85.3	90.0	94.4	95.1	97.0	97.0	97.3	97.3	97.5	98.1	98.4
GE 400		49.8	58.3	76.8	83.4	85.3	90.0	94.5	95.2	97.1	97.1	97.4	97.4	97.6	98.2	98.5
GE 300		49.8	58.3	76.8	83.4	85.3	90.0	94.6	95.3	97.2	97.2	97.5	97.5	97.7	98.3	98.6
GE 200		49.8	58.3	76.8	83.4	85.3	90.0	94.6	95.3	97.2	97.2	97.5	97.5	98.0	98.7	99.4
GE 100		49.8	58.3	76.8	83.4	85.3	90.0	94.6	95.3	97.2	97.2	97.5	97.5	98.0	98.7	99.6
GE 0		49.8	58.3	76.8	83.4	85.3	90.0	94.6	95.3	97.2	97.2	97.5	97.5	98.0	98.7	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10687U STATION NAME: GRAFENWOHR AAF GER PERIOD OF RECORD: 77-86
MONTH: OCT HOURS(LST): 2100-2300

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	17.0	20.9	30.0	33.8	35.2	37.7	40.1	40.4	41.5	41.6	41.6	42.3	42.9	43.8	45.2	
GE 20000	18.1	22.0	32.0	35.9	37.4	40.4	42.8	43.2	44.3	44.4	44.4	45.1	45.7	46.7	48.1	
GE 18000	18.2	22.2	32.2	36.2	37.7	40.8	43.1	43.5	44.6	44.7	44.7	45.4	46.0	47.0	48.4	
GE 16000	18.2	22.2	32.2	36.2	37.7	40.8	43.1	43.5	44.6	44.7	44.7	45.4	46.0	47.0	48.4	
GE 14000	18.2	22.2	32.2	36.2	37.7	40.8	43.1	43.5	44.6	44.7	44.7	45.4	46.0	47.0	48.4	
GE 12000	18.8	22.8	33.2	37.3	38.8	41.8	44.2	44.6	46.0	46.1	46.1	46.8	47.4	48.4	49.8	
GE 10000	19.8	23.8	34.4	38.7	40.3	43.4	45.9	46.3	47.7	47.8	47.8	48.5	49.1	50.1	51.5	
GE 9000	20.2	24.2	35.1	39.6	41.2	44.3	46.8	47.2	48.6	48.7	48.7	49.4	50.0	51.0	52.4	
GE 8000	23.4	28.6	40.4	45.6	47.2	50.6	53.3	53.8	55.3	55.4	55.4	56.0	56.7	57.6	59.0	
GE 7000	25.3	30.6	42.8	48.2	49.8	53.2	55.9	56.3	57.6	58.0	58.0	58.6	59.2	60.2	61.6	
GE 6000	25.7	31.2	43.3	48.7	50.3	53.8	56.5	56.9	58.4	58.5	58.5	59.1	59.8	60.8	62.2	
GE 5000	27.3	33.0	45.7	51.3	53.0	56.5	59.1	59.6	61.1	61.2	61.2	61.8	62.5	63.4	64.8	
GE 4500	29.2	35.4	48.4	54.0	55.7	59.2	61.9	62.4	63.9	64.0	64.3	64.9	65.6	66.7	68.1	
GE 4000	31.4	37.7	51.3	57.4	59.2	63.0	65.8	66.3	67.8	68.0	68.3	68.9	69.6	70.6	72.0	
GE 3500	33.5	40.0	53.8	60.0	61.8	65.7	68.5	69.0	70.5	70.6	71.0	71.6	72.3	73.3	74.7	
GE 3000	35.1	41.8	55.9	62.9	65.1	69.2	72.0	72.6	74.1	74.3	74.6	75.3	76.0	77.1	78.5	
GE 2500	36.6	43.9	58.2	65.6	67.7	72.0	74.8	75.4	76.9	77.1	77.4	78.1	78.8	79.9	81.3	
GE 2000	38.8	46.1	61.3	69.0	71.2	75.6	78.5	79.0	80.6	80.9	81.2	81.8	82.6	83.7	85.1	
GE 1800	39.0	46.3	61.8	69.8	72.0	76.5	79.4	79.9	81.5	81.7	82.0	82.7	83.4	84.5	85.9	
GE 1500	39.9	47.2	63.5	71.9	74.2	78.7	82.0	82.6	84.2	84.4	84.7	85.4	86.1	87.2	88.6	
GE 1200	40.1	47.4	64.1	72.8	75.4	79.9	83.7	84.3	86.0	86.2	86.7	87.3	88.1	89.1	90.5	
GE 1000	40.2	47.5	64.7	73.4	76.0	80.8	84.6	85.5	87.2	87.5	88.0	88.6	89.4	90.4	91.8	
GE 900	40.2	47.5	64.7	73.4	76.0	80.8	84.6	85.5	87.2	87.5	88.0	88.6	89.4	90.4	91.8	
GE 800	40.2	47.5	64.7	73.5	76.1	80.9	84.9	85.9	87.6	88.0	88.6	89.2	90.0	91.1	92.5	
GE 700	40.2	47.5	65.3	74.1	76.7	81.4	85.8	86.8	88.5	88.8	89.5	90.1	90.9	91.9	93.3	
GE 600	40.2	47.5	65.4	74.4	77.2	82.2	86.8	87.7	89.6	89.9	90.5	91.4	92.2	93.2	94.6	
GE 500	40.2	47.5	65.4	74.4	77.3	82.3	87.2	88.3	90.1	90.4	91.1	91.9	92.8	93.9	95.3	
GE 400	40.2	47.5	65.4	74.4	77.3	82.3	87.2	88.3	90.1	90.5	91.2	92.0	93.0	94.1	95.6	
GE 300	40.2	47.5	65.4	74.4	77.3	82.3	87.4	88.7	90.5	91.1	91.7	92.6	93.5	94.6	96.1	
GE 200	40.2	47.5	65.4	74.4	77.3	82.3	87.4	88.7	90.6	91.2	91.9	92.8	93.9	95.4	97.7	
GE 100	40.2	47.5	65.4	74.4	77.3	82.3	87.4	88.7	90.6	91.2	91.9	92.9	94.0	95.5	98.2	
GE 0	40.2	47.5	65.4	74.4	77.3	82.3	87.4	88.7	90.6	91.2	91.9	92.9	94.0	95.5	100.0	

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER PERIOD OF RECORD: 77-86
MONTH: OCT HOURS(LST): ALL

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		15.9	18.4	24.4	27.0	27.7	29.1	30.3	30.6	31.5	31.6	32.1	32.6	33.5	34.3	35.6
GE 20000		18.1	21.0	27.7	30.5	31.3	33.1	34.6	34.8	35.9	36.0	36.5	37.0	38.1	38.8	40.4
GE 18000		18.5	21.5	28.2	31.1	32.0	33.8	35.2	35.5	36.5	36.6	37.1	37.7	38.8	39.6	41.1
GE 16000		18.5	21.5	28.2	31.1	32.0	33.8	35.2	35.5	36.5	36.6	37.1	37.7	38.8	39.6	41.1
GE 14000		18.5	21.5	28.2	31.2	32.0	33.8	35.3	35.5	36.6	36.7	37.2	37.7	38.8	39.6	41.2
GE 12000		19.1	22.1	29.0	32.0	32.9	34.7	36.2	36.4	37.5	37.7	38.2	38.7	39.8	40.6	42.2
GE 10000		19.9	23.0	30.4	33.7	34.6	36.6	38.1	38.4	39.6	39.7	40.2	40.8	41.9	42.7	44.2
GE 9000		20.2	23.3	30.9	34.2	35.1	37.1	38.6	38.9	40.1	40.3	40.8	41.3	42.4	43.2	44.8
GE 8000		22.9	26.5	34.7	38.3	39.3	41.4	43.0	43.4	44.6	44.8	45.3	45.8	47.0	47.8	49.3
GE 7000		24.4	28.1	36.8	40.7	41.7	44.1	45.7	46.0	47.3	47.5	48.0	48.6	49.7	50.5	52.1
GE 6000		24.6	28.3	37.1	41.0	42.0	44.4	46.0	46.3	47.6	47.8	48.3	48.9	50.0	50.8	52.4
GE 5000		26.1	30.0	39.1	43.4	44.5	46.9	48.6	48.9	50.2	50.4	50.9	51.5	52.6	53.4	55.1
GE 4500		27.4	31.5	40.9	45.2	46.3	48.8	50.5	50.8	52.2	52.4	52.9	53.5	54.6	55.5	57.1
GE 4000		30.5	34.9	45.0	49.7	50.8	53.6	55.4	55.8	57.1	57.3	57.9	58.5	59.7	60.5	62.2
GE 3500		32.4	37.0	47.4	52.2	53.4	56.3	58.2	58.6	60.0	60.2	60.6	61.4	62.6	63.4	65.1
GE 3000		36.0	40.9	52.3	57.6	59.0	62.2	64.2	64.6	66.2	66.5	67.0	67.6	69.0	69.8	71.5
GE 2500		37.6	42.7	54.5	60.1	61.6	64.9	66.9	67.3	69.0	69.3	69.9	70.5	71.8	72.7	74.4
GE 2000		40.1	45.4	57.8	63.8	65.4	68.9	71.2	71.6	73.4	73.7	74.4	75.0	76.3	77.2	78.9
GE 1800		40.4	45.9	58.6	64.7	66.4	69.9	72.2	72.7	74.5	74.8	75.5	76.1	77.4	78.3	80.0
GE 1500		42.3	47.9	61.4	67.9	69.6	73.3	75.8	76.3	78.2	78.6	79.2	79.9	81.2	82.1	83.8
GE 1200		43.0	48.9	63.0	69.8	71.7	75.6	78.4	79.0	81.0	81.3	82.0	82.6	84.0	84.8	86.5
GE 1000		43.3	49.3	63.7	70.7	72.7	76.8	79.8	80.4	82.4	82.8	83.6	84.2	85.6	86.4	88.1
GE 900		43.4	49.3	64.1	71.2	73.1	77.3	80.3	81.0	83.0	83.5	84.2	84.9	86.2	87.1	88.8
GE 800		43.4	49.5	64.5	71.7	73.8	78.1	81.3	82.1	84.2	84.7	85.5	86.1	87.5	88.4	90.1
GE 700		43.4	49.5	64.8	72.1	74.3	78.9	82.4	83.2	85.5	85.9	86.8	87.4	88.8	89.7	91.4
GE 600		43.5	49.5	64.9	72.4	74.8	79.5	83.3	84.1	86.5	87.0	87.8	88.5	89.9	90.8	92.5
GE 500		43.5	49.5	65.0	72.5	75.0	79.8	83.7	84.6	87.2	87.7	88.6	89.4	90.8	91.7	93.4
GE 400		43.5	49.5	65.0	72.6	75.1	80.0	83.9	84.9	87.6	88.3	89.3	90.1	91.5	92.4	94.2
GE 300		43.5	49.5	65.0	72.6	75.1	80.0	84.1	85.2	88.1	88.8	89.9	90.6	92.3	93.3	95.3
GE 200		43.5	49.5	65.0	72.6	75.1	80.1	84.1	85.2	88.2	89.0	90.1	91.0	93.1	94.3	97.3
GE 100		43.5	49.5	65.0	72.6	75.1	80.1	84.1	85.2	88.2	89.0	90.2	91.1	93.4	94.7	98.8
GE 0		43.5	49.6	65.0	72.6	75.1	80.1	84.1	85.3	88.2	89.0	90.2	91.1	93.4	94.7	100.0

TOTAL NUMBER OF OBSERVATIONS: 7439

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: NOV HOURS(LST): 0000-0200

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	10.6	11.5	17.3	18.6	19.4	20.3	22.2	22.6	23.3	23.5	23.7	24.3	26.4	27.2	29.3	
GE 20000	11.5	12.4	18.5	20.4	21.3	22.2	24.3	24.6	25.3	25.5	25.7	26.3	28.6	29.3	31.5	
GE 18000	11.5	12.4	18.5	20.4	21.3	22.5	24.5	24.8	25.5	25.7	26.0	26.5	28.8	29.6	31.7	
GE 16000	11.5	12.4	18.5	20.4	21.3	22.5	24.5	24.8	25.5	25.7	26.0	26.5	28.8	29.6	31.7	
GE 14000	11.5	12.4	18.5	20.4	21.3	22.5	24.5	24.8	25.5	25.7	26.0	26.5	28.8	29.6	31.7	
GE 12000	11.6	12.5	18.7	20.7	21.6	22.7	24.7	25.1	25.7	26.0	26.2	26.7	29.0	29.8	31.9	
GE 10000	12.2	13.5	20.2	22.6	23.5	24.6	26.6	27.0	27.7	27.9	28.1	28.7	30.9	31.7	33.9	
GE 9000	12.2	13.5	20.2	22.6	23.5	24.6	26.6	27.0	27.7	27.9	28.1	28.7	30.9	31.7	33.9	
GE 8000	12.8	14.3	21.3	24.4	25.3	26.6	29.0	29.3	30.0	30.2	30.6	31.3	33.5	34.3	36.5	
GE 7000	13.8	15.7	23.1	26.5	27.4	29.0	31.4	31.7	32.5	32.7	33.1	33.7	36.0	36.8	38.9	
GE 6000	14.1	16.0	23.5	26.9	27.8	29.3	31.7	32.1	32.8	33.1	33.4	34.1	36.3	37.1	39.3	
GE 5000	15.6	17.7	25.3	28.7	29.6	31.2	33.9	34.2	35.0	35.2	35.6	36.2	38.5	39.3	41.4	
GE 4500	16.9	18.8	27.2	30.6	31.5	33.5	36.5	36.8	37.9	38.1	38.5	39.2	41.5	42.3	44.5	
GE 4000	19.6	21.0	30.1	33.5	34.4	36.5	39.6	40.0	41.1	41.4	41.8	42.4	44.8	45.6	47.7	
GE 3500	20.2	22.3	31.7	35.3	36.5	38.8	42.0	42.3	43.7	44.0	44.4	45.0	47.6	48.4	50.6	
GE 3000	22.7	25.2	35.1	39.2	40.4	42.9	46.5	46.8	48.5	49.0	49.3	50.2	52.9	53.7	55.9	
GE 2500	23.6	26.5	37.2	41.3	42.6	45.1	48.8	49.1	50.9	51.4	51.8	52.7	55.4	56.4	58.6	
GE 2000	24.9	27.9	39.1	43.3	44.6	47.3	51.1	51.5	53.4	53.8	54.3	55.2	57.9	58.9	61.1	
GE 1800	25.2	28.2	39.6	44.0	45.3	48.0	52.0	52.5	54.4	54.9	55.3	56.2	58.9	59.9	62.1	
GE 1500	26.4	29.8	42.4	47.0	48.3	51.4	56.2	56.7	58.7	59.1	59.6	60.5	63.2	64.2	66.4	
GE 1200	26.9	30.7	44.5	49.3	51.1	54.7	60.8	61.6	63.8	64.2	64.9	65.8	68.6	69.6	71.8	
GE 1000	27.2	31.0	46.4	51.7	53.6	57.8	64.4	65.3	67.6	68.1	68.7	69.6	72.5	73.5	75.6	
GE 900	27.2	31.0	46.5	52.5	54.4	58.8	66.1	67.0	69.5	70.1	70.8	71.7	74.5	75.7	77.9	
GE 800	27.7	31.5	47.4	53.8	55.8	60.9	68.3	69.3	71.6	72.3	73.0	73.9	76.7	78.0	80.1	
GE 700	27.9	31.7	48.1	54.6	56.7	62.2	69.9	70.9	73.8	74.4	75.1	76.0	78.8	80.0	82.2	
GE 600	28.0	31.8	49.0	55.5	56.0	63.9	71.8	72.8	76.0	76.5	77.2	78.1	80.9	82.2	84.3	
GE 500	28.0	31.9	49.4	56.0	58.5	65.3	73.4	74.6	78.0	78.7	79.3	80.2	83.5	84.8	86.9	
GE 400	28.1	32.1	49.5	56.1	56.6	65.5	73.9	75.6	79.9	80.6	81.3	82.2	85.6	86.8	88.9	
GE 300	28.3	32.3	49.8	56.3	58.9	65.9	74.6	76.4	81.2	82.1	83.1	84.1	87.9	89.2	91.6	
GE 200	28.3	32.3	49.8	56.3	56.9	66.3	75.1	76.9	81.8	82.8	84.2	85.7	90.2	91.5	95.7	
GE 100	28.3	32.3	49.8	56.3	56.9	66.3	75.1	77.0	82.1	83.1	84.5	86.2	92.0	94.0	98.9	
GE 0	28.3	32.3	49.8	56.3	58.9	66.3	75.1	77.0	82.1	83.1	84.5	86.2	92.0	94.2	100.0	

TOTAL NUMBER OF OBSERVATIONS: 886

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER PERIOD OF RECORD: 77-86
MONTH: NOV HOURS(LST): 0300-0500

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		10.6	11.8	15.0	16.2	17.1	18.2	19.3	19.8	20.2	20.2	21.1	21.2	23.1	23.2	25.2
GE 20000		11.4	13.0	17.2	17.9	18.8	20.0	21.1	21.6	22.0	22.0	23.3	23.4	25.4	25.6	27.7
GE 18000		11.4	13.0	17.4	18.1	19.0	20.2	21.4	21.8	22.3	22.3	23.5	23.6	25.6	25.9	27.9
GE 16000		11.4	13.0	17.4	18.1	19.0	20.2	21.4	21.8	22.3	22.3	23.5	23.6	25.6	25.9	27.9
GE 14000		11.4	13.0	17.4	18.1	19.0	20.2	21.4	21.8	22.3	22.3	23.5	23.6	25.6	25.9	27.9
GE 12000		11.4	13.0	17.6	18.5	19.4	20.7	21.8	22.3	22.7	22.7	24.0	24.1	26.1	26.3	28.4
GE 10000		11.9	13.6	18.5	19.8	20.7	21.9	23.1	23.5	24.0	24.0	25.2	25.3	27.3	27.6	29.6
GE 9000		12.0	13.7	18.8	20.0	20.9	22.4	23.5	24.0	24.4	24.4	25.6	25.8	27.8	28.0	30.1
GE 8000		12.5	14.2	20.0	21.4	22.3	24.1	25.5	26.1	26.7	26.7	27.9	28.0	30.2	30.4	32.4
GE 7000		12.9	14.7	21.5	23.2	24.1	26.0	27.5	28.1	28.7	28.7	30.1	30.2	32.3	32.5	34.6
GE 6000		13.0	14.8	21.6	23.3	24.2	26.2	27.7	28.4	28.9	28.9	30.3	30.4	32.5	32.8	34.8
GE 5000		14.1	15.9	22.9	24.6	25.5	27.7	29.6	30.4	31.0	31.0	32.3	32.4	34.6	34.8	36.8
GE 4500		14.2	16.0	24.4	26.1	27.1	29.4	31.4	32.2	32.9	32.9	34.2	34.4	36.5	36.7	38.8
GE 4000		16.5	18.5	27.8	29.5	30.5	32.9	35.0	35.8	36.5	36.6	38.1	38.2	40.3	40.6	42.6
GE 3500		17.7	19.8	29.2	30.8	32.0	34.4	36.5	37.3	38.1	38.2	39.7	39.8	41.9	42.1	44.2
GE 3000		19.9	22.3	31.9	33.6	35.0	38.0	41.0	42.1	42.9	43.3	44.7	44.9	47.0	47.2	49.5
GE 2500		21.1	23.7	33.7	35.6	37.1	40.3	43.4	44.5	45.4	45.8	47.2	47.3	49.5	49.7	52.0
GE 2000		23.2	26.3	37.2	39.4	41.1	44.4	47.7	49.0	50.5	50.8	52.3	52.4	54.6	54.8	57.1
GE 1800		23.4	26.6	37.6	39.9	41.6	44.9	48.4	49.7	51.3	51.6	53.1	53.2	55.4	55.6	57.9
GE 1500		24.3	27.7	39.7	42.3	44.1	47.8	51.6	53.0	54.9	55.3	56.7	56.9	59.1	59.3	61.6
GE 1200		25.3	29.2	42.6	45.6	48.0	52.5	57.7	59.3	61.7	62.0	63.5	63.7	66.0	66.2	68.5
GE 1000		25.6	29.6	44.6	48.5	50.8	56.0	61.8	63.4	65.9	66.2	67.7	67.9	70.2	70.4	72.7
GE 900		25.6	29.7	45.1	49.4	51.8	57.3	63.4	65.1	68.0	68.4	69.8	70.1	72.3	72.5	74.8
GE 800		25.6	29.7	45.4	50.1	52.5	58.4	65.2	66.9	69.8	70.2	71.6	71.9	74.1	74.5	76.7
GE 700		25.8	30.1	46.2	50.8	53.3	59.3	66.4	68.2	71.3	71.6	73.1	73.3	75.9	76.3	78.5
GE 600		25.8	30.1	46.4	51.3	54.0	60.5	68.1	70.1	73.3	73.7	75.1	75.4	78.0	78.3	80.6
GE 500		25.9	30.2	46.9	52.0	54.8	62.1	71.0	73.1	76.5	76.8	78.3	78.5	81.1	81.5	83.7
GE 400		26.3	30.6	47.8	52.9	55.8	64.0	73.2	75.5	79.8	80.1	81.8	82.3	84.9	85.2	87.6
GE 300		26.3	30.6	47.8	52.9	55.8	64.1	73.9	76.5	80.8	81.4	83.4	84.0	87.0	87.7	90.3
GE 200		26.3	30.6	47.8	52.9	55.8	64.3	74.1	76.7	81.4	81.9	84.2	85.1	88.5	89.6	93.6
GE 100		26.3	30.6	47.8	52.9	55.8	64.4	74.2	76.8	81.5	82.3	84.6	85.5	90.3	92.4	96.2
GE 0		26.3	30.7	47.9	53.0	55.9	64.5	74.4	76.9	81.6	82.4	84.7	85.6	90.5	92.7	100.0

TOTAL NUMBER OF OBSERVATIONS: 885

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: NOV HOURS(LST): 0600-0800

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		7.4	8.4	10.8	11.6	12.5	12.8	13.5	13.7	14.4	14.6	15.3	15.7	16.7	17.1	19.0
GE 20000		7.8	9.2	12.0	13.4	14.4	14.9	15.5	15.8	16.4	16.8	17.7	18.0	19.1	19.6	21.5
GE 18000		8.2	9.7	12.5	13.9	14.9	15.5	16.2	16.6	17.2	17.6	18.5	18.8	19.9	20.4	22.3
GE 16000		8.2	9.7	12.5	13.9	14.9	15.5	16.2	16.6	17.2	17.6	18.5	18.8	19.9	20.4	22.3
GE 14000		8.4	10.0	12.8	14.2	15.2	15.9	16.6	17.1	17.8	18.1	19.0	19.4	20.5	20.9	22.9
GE 12000		8.4	10.0	13.0	14.4	15.4	16.2	16.9	17.5	18.1	18.5	19.4	19.7	20.8	21.3	23.2
GE 10000		9.3	10.9	14.3	16.1	17.1	17.9	18.6	19.1	19.8	20.2	21.1	21.4	22.5	23.0	24.9
GE 9000		9.5	11.0	14.4	16.2	17.2	18.0	18.7	19.3	19.9	20.3	21.2	21.5	22.6	23.1	25.0
GE 8000		10.5	12.3	15.8	18.2	19.4	20.4	21.1	21.6	22.4	22.7	23.6	24.2	25.5	25.9	27.8
GE 7000		11.1	13.0	17.2	19.8	21.2	22.3	23.0	23.5	24.3	24.8	25.7	26.2	27.5	27.9	30.1
GE 6000		11.3	13.1	17.3	20.0	21.4	22.5	23.2	23.8	24.5	25.0	25.9	26.5	27.7	28.2	30.3
GE 5000		12.5	14.5	19.1	22.0	23.3	24.5	25.5	26.1	26.9	27.4	28.3	28.8	30.1	30.5	32.7
GE 4500		13.3	15.3	20.6	23.5	25.0	26.4	27.4	28.0	29.1	29.5	30.4	31.0	32.2	32.7	34.6
GE 4000		14.6	17.0	23.1	26.2	27.8	29.3	30.6	31.3	32.3	32.8	33.7	34.2	35.7	36.1	38.3
GE 3500		15.3	17.7	24.3	27.5	29.1	30.5	31.9	32.5	33.6	34.0	34.9	35.5	36.9	37.4	39.5
GE 3000		17.7	20.0	26.9	30.2	32.1	33.9	35.6	36.3	37.6	38.1	39.0	39.5	41.0	41.6	43.8
GE 2500		19.6	22.4	29.5	33.0	35.0	36.9	39.0	39.6	41.1	41.6	42.5	43.0	44.5	45.0	47.3
GE 2000		22.2	25.8	33.0	37.4	39.6	41.9	44.0	44.7	46.2	46.7	47.6	48.2	49.7	50.2	52.5
GE 1800		22.7	26.5	34.5	38.2	40.7	42.8	45.2	45.9	47.4	48.0	48.9	49.4	50.9	51.5	53.7
GE 1500		24.4	28.5	36.9	41.2	44.0	46.8	49.7	50.5	52.1	52.8	53.8	54.4	55.9	56.4	58.7
GE 1200		25.1	30.1	40.1	44.8	47.7	50.7	54.1	55.1	57.2	57.9	58.9	59.7	61.1	61.7	64.0
GE 1000		25.5	30.5	42.1	47.2	50.5	53.7	57.8	59.0	61.6	62.3	63.4	64.2	65.7	66.2	68.5
GE 900		25.5	30.5	42.6	47.7	51.1	55.0	59.1	60.4	63.1	63.9	65.2	66.0	67.5	68.0	70.3
GE 800		25.7	30.9	43.1	48.3	51.8	56.1	60.6	61.9	64.6	65.8	67.2	68.1	69.6	70.2	72.4
GE 700		26.0	31.3	44.1	49.7	53.3	58.4	63.5	64.9	67.8	69.0	70.9	72.0	73.5	74.1	76.4
GE 600		26.0	31.5	44.4	50.3	54.2	60.0	65.4	67.0	70.2	71.4	73.4	74.5	76.1	76.7	78.9
GE 500		26.1	31.8	44.6	50.8	55.3	61.8	67.7	69.6	73.4	74.8	76.9	78.2	79.8	80.4	82.7
GE 400		26.1	31.8	45.0	51.2	55.9	63.4	70.0	72.0	76.8	78.2	80.3	81.5	83.4	84.1	86.6
GE 300		26.1	31.8	45.0	51.2	55.9	63.4	70.3	72.4	78.0	79.6	82.4	83.9	85.9	86.8	90.0
GE 200		26.1	31.8	45.0	51.2	55.9	63.4	70.3	72.5	78.3	80.0	83.0	84.7	88.3	90.0	94.1
GE 100		26.1	31.8	45.0	51.2	55.9	63.4	70.3	72.5	78.3	80.0	83.2	84.9	90.1	92.2	98.4
GE 0		26.1	31.9	45.2	51.4	56.0	63.5	70.4	72.6	78.4	80.1	83.3	85.0	90.3	92.5	100.0

TOTAL NUMBER OF OBSERVATIONS: 888

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106370 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: NOV HOURS(LST): 0900-1100

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	5.9	6.6	8.9	9.6	9.9	10.6	11.0	11.0	11.1	11.3	11.3	11.3	12.2	12.5	12.6	
GE 20000	7.0	8.0	11.3	12.5	13.2	13.9	14.4	14.4	14.6	14.9	14.9	15.1	16.0	16.3	16.7	
GE 18000	7.0	8.0	11.5	12.7	13.4	14.2	14.8	14.8	15.0	15.2	15.2	15.4	16.3	16.7	17.0	
GE 16000	7.0	8.0	11.5	12.7	13.4	14.2	14.8	14.8	15.0	15.2	15.2	15.4	16.3	16.7	17.0	
GE 14000	7.0	8.0	11.7	13.1	13.7	14.5	15.1	15.1	15.3	15.5	15.5	15.8	16.7	17.0	17.3	
GE 12000	7.3	9.3	12.2	13.5	14.2	15.0	15.5	15.5	15.8	16.0	16.0	16.2	17.1	17.5	17.8	
GE 10000	7.5	8.7	12.7	14.1	14.8	15.7	16.2	16.2	16.4	16.8	16.8	17.0	17.9	18.4	18.7	
GE 9000	7.5	8.7	12.7	14.1	14.8	15.7	16.2	16.2	16.4	16.8	16.8	17.0	17.9	18.4	18.7	
GE 8000	8.2	9.5	14.2	15.9	17.0	17.9	18.6	18.9	19.1	19.5	19.5	19.7	20.6	21.1	21.4	
GE 7000	10.0	11.4	16.9	18.9	20.0	20.9	21.7	22.1	22.3	22.6	22.6	22.9	23.9	24.3	24.7	
GE 6000	10.4	11.7	17.3	19.5	20.6	21.5	22.3	22.6	22.9	23.2	23.2	23.4	24.4	24.9	25.2	
GE 5000	11.7	13.2	19.3	21.6	22.7	23.6	24.5	25.0	25.2	25.7	25.7	26.0	27.0	27.5	27.8	
GE 4500	12.6	14.2	20.5	22.9	24.0	24.9	25.8	26.2	26.5	26.9	26.9	27.3	28.3	28.7	29.1	
GE 4000	14.1	16.0	22.7	25.1	26.2	27.3	28.6	29.1	29.3	29.7	29.7	30.1	31.1	31.5	31.9	
GE 3500	15.4	17.5	24.3	26.8	28.0	29.3	30.9	31.3	31.5	32.0	32.0	32.3	33.3	33.8	34.1	
GE 3000	20.2	22.6	30.9	33.8	35.2	36.7	38.4	39.0	39.4	40.0	40.1	40.4	41.6	42.0	42.3	
GE 2500	22.9	25.3	33.6	36.9	38.7	40.5	42.3	42.9	43.4	43.9	44.0	44.4	45.5	45.9	46.3	
GE 2000	25.1	28.8	37.8	41.6	43.5	45.8	47.6	48.3	48.8	49.3	49.4	49.8	50.9	51.4	51.7	
GE 1800	25.5	29.2	38.4	42.1	44.0	46.5	48.6	49.3	49.8	50.3	50.5	50.8	51.9	52.4	52.7	
GE 1600	27.4	31.6	41.4	45.6	47.7	50.7	53.3	53.9	54.7	55.4	55.5	55.9	57.0	57.4	57.8	
GE 1200	28.8	33.2	43.8	48.6	51.1	54.3	57.2	58.0	59.3	60.1	60.2	60.6	61.7	62.2	62.5	
GE 1000	29.4	33.8	45.7	51.7	54.6	58.2	61.6	62.6	64.3	65.1	65.3	65.7	66.8	67.2	67.6	
GE 900	29.6	34.0	46.5	53.2	56.2	60.4	64.0	65.0	66.8	67.6	67.9	68.2	69.4	69.8	70.2	
GE 800	29.6	34.0	47.0	53.9	57.1	61.4	65.1	66.6	68.6	69.6	70.2	70.5	71.6	72.1	72.4	
GE 700	29.6	34.2	47.9	55.1	58.3	63.0	67.2	68.7	71.1	72.2	72.7	73.2	74.4	74.9	75.2	
GE 600	29.6	34.2	48.6	57.1	60.9	66.1	70.6	72.4	75.6	76.8	77.5	78.0	79.3	79.7	80.1	
GE 500	29.8	34.2	48.8	57.3	61.9	67.7	73.0	75.0	78.9	80.3	81.2	82.0	83.4	83.9	84.5	
GE 400	29.6	34.2	48.8	57.3	62.3	68.9	75.2	77.9	82.9	84.2	85.6	86.4	88.1	88.6	89.3	
GE 300	29.8	34.2	48.8	57.3	62.3	68.9	75.3	78.3	83.9	85.7	87.3	88.6	90.8	91.9	93.1	
GE 200	29.8	34.2	48.8	57.3	62.3	68.9	75.3	78.3	84.0	85.9	87.7	90.0	94.4	96.1	98.0	
GE 100	29.8	34.2	48.8	57.3	62.3	68.9	75.3	78.3	84.0	85.9	87.7	90.0	94.6	96.4	99.4	
GE 0	30.0	34.3	48.9	57.4	62.4	69.0	75.5	78.4	84.1	86.0	87.8	90.1	94.7	96.5	100.0	

TOTAL NUMBER OF OBSERVATIONS: 868

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-86
MONTH: NOV HOURS(LST): 1200-1400

CEILING IN FEET	NO CEIL	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
		VISIBILITY IN HUNDREDS OF METERS															
	NO CEIL	12.6	14.4	16.7	17.6	17.8	18.2	18.5	18.5	18.6	18.6	18.8	18.8	18.8	18.8	18.8	
GE	20000	14.3	16.5	19.7	20.7	21.0	21.4	21.9	21.9	22.0	22.0	22.2	22.2	22.2	22.2	22.2	
GE	18000	14.5	16.9	20.5	21.5	21.8	22.2	22.7	22.7	22.8	22.8	23.0	23.0	23.0	23.0	23.0	
GE	16000	14.5	16.9	20.5	21.5	21.8	22.2	22.7	22.7	22.8	22.8	23.0	23.0	23.0	23.0	23.0	
GE	14000	14.5	16.9	20.5	21.5	21.8	22.2	22.7	22.7	22.8	22.8	23.0	23.0	23.0	23.0	23.0	
GE	12000	14.5	16.9	20.5	21.5	21.8	22.2	22.7	22.7	22.8	22.8	23.0	23.0	23.0	23.0	23.0	
GE	10000	15.1	17.5	21.1	22.1	22.4	22.9	23.3	23.3	23.4	23.4	23.7	23.7	23.7	23.7	23.7	
GE	9000	15.3	17.7	21.4	22.4	22.8	23.2	23.6	23.9	24.0	24.0	24.2	24.2	24.2	24.2	24.2	
GE	8000	16.9	19.4	23.3	24.6	25.3	26.0	26.6	26.9	27.1	27.1	27.3	27.3	27.3	27.3	27.3	
GE	7000	19.4	21.1	25.5	26.9	27.7	28.5	29.1	29.4	29.7	29.7	29.9	29.9	30.0	30.0	30.0	
GE	6000	18.6	21.3	25.9	27.5	28.3	29.2	29.8	30.1	30.3	30.3	30.6	30.6	30.7	30.7	30.7	
GE	5000	20.5	23.6	28.5	30.1	30.9	31.8	32.5	32.9	33.1	33.1	33.4	33.4	33.5	33.5	33.5	
GE	4500	21.3	24.4	29.3	30.9	31.7	32.7	33.4	33.8	34.0	34.0	34.3	34.3	34.4	34.4	34.4	
GE	4000	23.0	26.2	31.9	33.5	34.4	35.4	36.1	36.5	36.8	36.8	37.0	37.0	37.1	37.1	37.1	
GE	3500	25.3	28.4	34.5	36.3	37.3	38.4	39.2	39.8	40.0	40.0	40.2	40.2	40.4	40.4	40.4	
GE	3000	32.4	35.9	43.1	45.2	46.2	47.5	48.5	49.2	49.5	49.6	49.8	49.8	49.9	49.9	49.9	
GE	2500	36.2	39.9	47.6	50.3	51.3	52.6	53.9	54.7	55.0	55.1	55.4	55.4	55.5	55.5	55.5	
GE	2000	39.0	43.1	52.2	55.4	56.4	57.9	59.3	60.1	60.4	60.5	60.8	60.8	60.9	60.9	60.9	
GE	1800	39.7	43.7	53.2	56.5	57.5	59.1	60.5	61.3	61.7	61.8	62.0	62.0	62.1	62.1	62.1	
GE	1500	41.0	44.5	56.8	60.8	61.8	64.3	66.1	67.0	67.5	67.6	67.9	67.9	68.0	68.0	68.0	
GE	1200	43.1	47.7	59.9	64.8	66.2	69.1	71.3	72.2	72.9	73.1	73.3	73.3	73.4	73.4	73.4	
GE	1000	43.5	48.5	62.3	68.8	70.6	74.5	77.2	78.1	79.3	79.4	79.6	79.7	79.8	79.8	79.8	
GE	900	43.6	48.6	63.4	70.3	72.3	76.3	79.0	79.9	81.1	81.2	81.4	81.5	81.6	81.6	81.6	
GE	800	43.6	48.7	63.8	71.6	74.0	78.5	81.4	82.3	83.4	83.5	84.2	84.3	84.4	84.4	84.4	
GE	700	43.6	48.9	65.1	73.7	76.3	81.2	84.6	85.5	86.8	86.9	87.6	87.8	87.9	87.9	87.9	
GE	600	43.6	48.9	65.5	74.2	77.1	82.5	86.4	87.5	89.1	89.2	90.0	90.2	90.6	90.6	90.6	
GE	500	43.6	48.9	65.5	74.4	77.6	83.2	87.7	89.0	90.8	91.0	91.6	92.2	93.1	93.1	93.1	
GE	400	43.6	48.9	65.5	74.4	77.7	84.2	88.8	90.4	92.8	93.0	93.9	94.4	95.4	95.4	95.4	
GE	300	43.6	48.9	65.5	74.4	77.7	84.2	89.0	90.5	93.0	93.6	94.6	95.8	96.8	96.8	97.2	
GE	200	43.6	48.9	65.5	74.4	77.7	84.2	89.1	90.6	93.5	94.1	95.6	97.0	98.5	98.6	99.3	
GE	100	43.6	48.9	65.5	74.4	77.7	84.2	89.1	90.6	93.5	94.1	95.6	97.0	98.5	98.6	100.0	
GE	0	43.6	48.9	65.5	74.4	77.7	84.2	89.1	90.6	93.5	94.1	95.6	97.0	98.5	98.6	100.0	

TOTAL NUMBER OF OBSERVATIONS: 867

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106970 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: NOV HOURS(LST): 1500-1700

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		14.3	16.0	19.4	20.6	20.8	21.2	21.3	21.4	21.5	21.5	21.6	21.6	21.6	21.6	21.6
GE 20000		17.7	20.5	24.1	25.7	26.0	26.5	26.6	26.7	26.8	26.8	26.9	26.9	27.0	27.0	27.0
GE 18000		18.1	20.9	24.5	26.1	26.6	27.0	27.1	27.3	27.4	27.4	27.5	27.5	27.6	27.6	27.6
GE 16000		18.2	21.1	24.7	26.2	26.7	27.1	27.3	27.4	27.5	27.5	27.6	27.6	27.7	27.7	27.7
GE 14000		18.4	21.2	24.8	26.4	26.8	27.3	27.4	27.5	27.6	27.6	27.7	27.7	27.8	27.8	27.8
GE 12000		18.5	21.3	24.9	26.5	26.9	27.4	27.5	27.6	27.7	27.7	27.8	27.8	27.9	27.9	27.9
GE 10000		19.0	22.0	25.6	27.1	27.6	28.2	28.3	28.4	28.5	28.5	28.6	28.6	28.7	28.7	28.7
GE 9000		19.5	22.4	26.0	27.6	28.0	28.6	28.7	28.8	28.9	28.9	29.1	29.1	29.2	29.2	29.2
GE 8000		20.8	23.9	28.2	29.8	30.5	31.9	32.1	32.4	32.5	32.5	32.8	32.8	32.9	32.9	32.9
GE 7000		22.9	26.1	30.5	32.4	33.1	34.6	34.9	35.2	35.5	35.5	35.7	35.7	35.8	35.8	35.8
GE 6000		23.0	26.2	30.6	32.5	33.2	34.7	35.0	35.4	35.6	35.6	35.8	35.8	35.9	35.9	35.9
GE 5000		24.7	28.6	34.1	36.1	37.6	38.5	38.9	39.2	39.5	39.5	39.8	39.8	39.9	39.9	39.9
GE 4500		26.5	30.4	36.3	38.7	39.6	41.1	41.4	41.8	42.1	42.1	42.3	42.3	42.5	42.5	42.5
GE 4000		28.0	32.2	38.5	41.2	42.2	43.7	44.0	44.4	44.7	44.7	44.9	45.0	45.2	45.2	45.2
GE 3500		30.2	34.3	40.9	43.9	44.9	46.4	46.7	47.1	47.4	47.4	47.6	47.7	47.9	47.9	47.9
GE 3000		36.3	41.1	48.3	51.6	52.8	54.5	55.1	55.4	55.7	55.7	56.0	56.1	56.2	56.2	56.2
GE 2500		39.6	44.9	52.8	56.3	57.5	59.3	60.0	60.6	60.9	60.9	61.1	61.3	61.4	61.4	61.4
GE 2000		41.7	47.3	57.0	61.6	63.0	65.3	66.1	66.8	67.3	67.3	67.6	67.7	67.8	67.8	67.8
GE 1800		42.2	48.1	58.3	63.3	64.6	67.2	68.0	68.8	69.4	69.4	69.6	69.7	69.8	69.8	69.8
GE 1500		44.1	50.5	62.2	67.8	69.3	72.2	73.0	73.8	74.5	74.5	74.8	74.9	75.0	75.0	75.0
GE 1200		44.9	51.7	64.6	71.5	73.3	77.7	79.4	80.2	81.1	81.2	81.4	81.6	81.8	81.8	81.8
GE 1000		44.9	51.8	66.3	74.2	76.2	81.1	83.0	84.0	84.9	85.0	85.4	85.6	85.7	85.7	85.7
GE 900		44.9	51.8	66.7	75.3	77.5	82.3	84.2	85.2	86.1	86.3	86.6	86.8	86.9	86.9	86.9
GE 800		44.9	51.9	67.6	76.5	78.7	83.8	86.1	87.2	88.2	88.4	88.7	89.0	89.1	89.1	89.1
GE 700		44.9	51.9	67.6	77.5	79.7	85.6	88.5	89.6	90.8	91.0	91.3	91.7	91.9	91.9	91.9
GE 600		44.9	51.9	67.7	77.9	80.4	86.8	90.0	91.1	92.2	92.8	93.1	93.6	93.8	93.8	93.8
GE 500		44.9	51.9	67.7	77.9	80.4	87.0	90.7	91.8	93.2	93.8	94.1	94.6	94.8	94.8	94.8
GE 400		44.9	51.9	67.7	78.0	80.5	87.5	91.4	92.6	94.7	95.4	95.7	96.2	96.4	96.4	96.4
GE 300		44.9	51.9	67.7	78.0	80.5	87.5	91.6	92.7	95.4	96.2	96.7	97.3	97.5	97.5	97.5
GE 200		44.9	51.9	67.7	78.0	80.5	87.5	91.6	92.7	95.6	96.4	97.1	97.7	98.4	98.5	99.2
GE 100		44.9	51.9	67.7	78.0	80.5	87.5	91.6	92.7	95.6	96.4	97.1	97.7	98.4	98.6	99.9
GE 0		44.9	51.9	67.7	78.2	80.6	87.6	91.7	92.8	95.7	96.5	97.2	97.9	98.5	98.8	100.0

TOTAL NUMBER OF OBSERVATIONS: 888

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106970 STATION NAME: GRAFENWOHR AAF GER PERIOD OF RECORD: 77-86
MONTH: NOV HOURS(LST): 1800-2000

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS																
	GE 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	13.9	15.5	19.9	23.0	23.5	24.4	25.6	26.2	26.9	27.0	27.1	27.3	27.9	28.6	26.7	
GE 20000	15.0	17.0	22.0	25.6	26.2	27.3	28.4	29.2	29.8	30.0	30.1	30.2	31.0	31.6	31.8	
GE 18000	15.0	17.0	22.1	25.7	26.4	27.4	28.5	29.3	30.0	30.1	30.2	30.3	31.1	31.8	31.9	
GE 16000	15.0	17.0	22.1	25.7	26.4	27.4	28.5	29.3	30.0	30.1	30.2	30.3	31.1	31.8	31.9	
GE 14000	15.0	17.0	22.1	25.7	26.4	27.4	28.5	29.3	30.0	30.1	30.2	30.3	31.1	31.8	31.9	
GE 12000	15.0	17.0	22.2	25.8	26.5	27.5	28.6	29.4	30.3	30.4	30.5	30.6	31.4	32.1	32.2	
GE 10000	15.5	18.0	23.5	27.1	27.8	28.8	30.0	30.7	31.6	31.8	31.9	32.0	32.8	33.4	33.6	
GE 9000	15.9	18.4	23.9	27.5	28.2	29.2	30.3	31.1	32.0	32.1	32.2	32.3	33.1	33.8	33.9	
GE 8000	17.3	19.9	26.8	30.7	31.4	32.4	33.6	34.7	35.8	35.9	36.0	36.1	36.9	37.6	37.7	
GE 7000	18.4	20.9	28.0	32.1	32.9	34.1	35.6	36.7	38.0	38.1	38.2	38.3	39.1	39.9	40.0	
GE 6000	18.6	21.2	28.3	32.3	33.1	34.3	35.9	37.0	38.3	38.4	38.5	38.6	39.4	40.2	40.3	
GE 5000	20.9	23.6	31.1	35.6	36.4	37.6	39.5	40.7	41.9	42.0	42.1	42.2	43.0	43.8	43.9	
GE 4500	22.1	24.8	32.5	37.2	38.2	39.4	41.3	42.5	43.7	43.8	43.9	44.0	44.8	45.6	45.7	
GE 4000	24.2	27.3	35.6	40.8	41.8	43.2	45.3	46.4	47.6	47.7	48.1	48.2	49.0	49.8	49.9	
GE 3500	26.0	29.1	37.7	43.0	44.0	45.5	47.5	48.6	50.0	50.1	50.5	50.6	51.4	52.1	52.3	
GE 3000	29.1	32.8	42.5	47.9	49.3	51.2	53.6	54.8	56.2	56.3	56.6	56.9	57.7	58.4	58.6	
GE 2500	31.0	34.9	45.9	51.9	53.4	55.7	58.6	60.1	61.5	61.6	61.9	62.2	63.0	63.7	63.9	
GE 2000	32.4	37.2	49.4	56.3	58.1	60.8	64.2	65.8	67.6	67.7	68.0	68.2	69.0	69.8	69.9	
GE 1800	32.9	37.6	50.6	57.8	59.6	62.3	65.7	67.2	69.0	69.1	69.5	69.7	70.5	71.3	71.4	
GE 1500	34.2	39.4	53.0	60.7	62.7	65.5	69.5	71.1	72.9	73.0	73.3	73.5	74.3	75.1	75.2	
GE 1200	34.8	40.2	55.2	63.7	65.9	69.6	73.6	75.2	77.1	77.4	77.8	78.0	78.8	79.6	79.7	
GE 1000	34.9	40.3	55.7	65.0	67.2	71.2	75.5	77.0	79.4	80.0	80.4	80.6	81.4	82.2	82.3	
GE 900	35.0	40.4	56.1	65.7	68.0	72.0	76.2	77.8	80.5	81.1	81.5	81.8	82.5	83.3	83.7	
GE 800	35.0	40.4	56.5	66.6	68.9	73.0	77.4	79.1	81.8	82.3	82.9	83.1	83.9	84.7	85.0	
GE 700	35.0	40.4	56.9	66.9	69.7	74.0	79.1	80.9	83.6	84.1	84.7	85.1	85.9	86.7	87.0	
GE 600	35.0	40.4	56.9	67.5	70.3	74.9	80.3	82.1	84.9	85.7	86.3	86.7	87.5	88.3	88.6	
GE 500	35.0	40.4	56.9	67.8	70.6	75.6	82.3	84.1	87.4	88.5	89.1	89.5	90.4	91.2	91.6	
GE 400	35.1	40.5	57.0	68.1	70.9	76.2	83.6	85.4	88.7	90.1	90.9	91.6	92.6	93.4	93.7	
GE 300	35.1	40.5	57.0	68.1	71.1	76.4	84.1	86.4	90.0	91.3	92.2	93.1	94.3	95.0	95.7	
GE 200	35.1	40.5	57.0	68.1	71.1	76.4	84.1	86.4	90.2	91.6	92.6	93.8	96.1	96.8	97.7	
GE 100	35.1	40.5	57.0	68.1	71.1	76.4	84.1	86.4	90.2	91.6	92.6	93.8	96.2	97.1	99.2	
GE 0	35.1	40.5	57.0	68.1	71.1	76.4	84.1	86.5	90.3	91.7	92.7	93.9	96.4	97.6	100.0	

TOTAL NUMBER OF OBSERVATIONS: 868

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: NOV HOURS(LST): 2100-2300

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	12.7	13.9	18.4	19.7	20.5	21.8	24.1	24.4	25.3	26.0	26.4	26.4	27.8	29.6	30.6	
GE 20000	13.5	14.7	20.0	22.0	22.8	24.4	26.9	27.2	28.2	29.0	29.3	29.3	30.8	31.6	32.9	
GE 18000	13.5	14.7	20.0	22.0	22.8	24.4	26.9	27.2	28.2	29.0	29.3	29.3	30.8	31.6	32.9	
GE 16000	13.5	14.7	20.0	22.0	22.8	24.4	26.9	27.2	28.2	29.0	29.3	29.3	30.8	31.6	32.9	
GE 14000	13.5	14.7	20.0	22.0	22.8	24.4	26.9	27.2	28.2	29.0	29.3	29.3	30.8	31.6	32.9	
GE 12000	13.5	14.7	20.0	22.0	22.8	24.4	26.9	27.2	28.2	29.0	29.3	29.3	30.8	31.6	32.9	
GE 10000	14.0	15.3	21.2	23.3	24.1	25.7	28.3	28.5	29.5	30.3	30.7	30.7	32.1	32.9	34.3	
GE 9000	14.1	15.4	21.3	23.4	24.2	25.8	28.4	28.6	29.7	30.4	30.8	30.8	32.2	33.0	34.4	
GE 8000	16.0	17.8	24.9	27.5	28.5	30.1	32.7	32.9	34.0	34.8	35.2	35.2	36.6	37.4	38.8	
GE 7000	17.1	18.9	26.2	29.1	30.1	31.8	34.4	34.6	36.1	36.9	37.3	37.3	38.9	39.7	41.0	
GE 6000	17.4	19.2	26.4	29.3	30.3	32.0	34.6	34.8	36.3	37.1	37.5	37.5	39.1	39.9	41.3	
GE 5000	19.2	21.0	29.1	32.0	33.1	34.9	37.8	38.1	39.8	40.6	41.0	41.0	42.6	43.4	44.8	
GE 4500	20.2	22.0	30.2	33.1	34.3	36.0	39.0	39.5	41.3	42.1	42.6	42.6	44.2	45.0	46.3	
GE 4000	21.6	23.9	32.9	36.1	37.4	39.2	42.4	42.8	44.8	45.5	46.1	46.1	47.7	48.5	49.8	
GE 3500	23.2	25.5	34.8	38.3	39.7	41.5	44.8	45.3	47.5	48.3	48.8	48.8	50.5	51.3	52.6	
GE 3000	25.3	28.2	38.3	41.9	43.5	45.7	49.3	49.9	52.8	53.6	54.2	54.2	55.9	56.7	58.2	
GE 2500	26.9	30.0	41.5	45.2	46.8	49.0	52.6	53.6	56.4	57.2	57.8	57.8	59.5	60.3	61.8	
GE 2000	27.8	31.2	43.7	47.9	49.9	52.3	56.3	57.2	60.3	61.1	61.8	61.8	63.5	64.3	65.7	
GE 1800	28.3	31.7	44.5	48.8	50.8	53.7	57.6	58.5	61.7	62.5	63.1	63.1	64.8	65.6	67.1	
GE 1500	29.7	33.1	47.7	52.2	54.5	57.8	62.3	63.2	66.4	67.2	67.9	67.9	69.6	70.3	71.8	
GE 1200	30.7	34.4	50.4	55.5	57.7	61.7	66.4	67.4	70.7	71.5	72.2	72.2	74.0	74.7	76.2	
GE 1000	30.7	34.4	50.7	56.6	59.1	63.0	68.1	69.1	72.9	73.8	74.7	74.7	76.6	77.3	78.8	
GE 900	30.7	34.5	51.1	57.0	59.6	63.6	68.9	69.9	73.8	74.7	75.6	75.9	77.7	78.6	80.0	
GE 800	31.0	34.9	51.6	57.8	60.7	64.6	70.0	71.0	75.0	75.9	76.9	77.1	78.9	79.8	81.3	
GE 700	31.0	34.9	52.1	58.5	61.7	66.0	71.5	72.5	76.4	77.5	78.5	78.8	80.6	81.5	83.0	
GE 600	31.1	35.2	52.3	59.2	62.5	67.3	73.1	74.1	78.2	79.4	80.4	80.7	82.5	83.4	84.9	
GE 500	31.1	35.5	52.6	59.6	63.1	68.7	75.2	76.6	81.1	82.2	83.4	83.8	85.6	86.6	88.0	
GE 400	31.2	35.6	52.9	59.9	63.5	69.2	76.1	77.5	82.6	84.0	85.3	85.7	87.5	88.5	90.0	
GE 300	31.2	35.6	52.9	60.0	63.7	69.4	77.2	78.8	84.3	85.7	87.0	87.5	89.7	90.8	92.3	
GE 200	31.2	35.6	52.9	60.0	63.7	69.4	77.2	79.1	85.5	87.1	88.8	89.6	92.7	94.3	96.3	
GE 100	31.2	35.6	52.9	60.0	63.7	69.4	77.2	79.1	85.7	87.4	89.2	90.1	93.5	95.7	98.6	
GE 0	31.2	35.6	52.9	60.0	63.7	69.4	77.2	79.1	85.7	87.4	89.2	90.1	93.9	96.3	100.0	

TOTAL NUMBER OF OBSERVATIONS: 887

GLOBAL CLIMATOLOGY BRANCH — PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
USAFETAC — FROM HOURLY OBSERVATIONS
AIR WEATHER SERVICE/MAC

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER — PERIOD OF RECORD: 77-86
MONTH: NOV HOURS(LST): ALL

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GE 160	GE 96	GE 80	GE 64	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		11.6	12.3	15.9	17.1	17.7	18.4	19.4	19.7	20.2	20.3	20.7	20.8	21.8	22.2	23.2
GE 20000	12.3	13.9	18.1	19.8	20.5	21.3	22.4	22.7	23.2	23.4	23.6	23.9	25.0	25.4	26.4	
GE 18000	12.4	14.1	18.4	20.1	20.8	21.7	22.8	23.0	23.5	23.7	24.1	24.3	25.4	25.8	26.8	
GE 16000	12.4	14.1	18.4	20.1	20.8	21.7	22.8	23.1	23.5	23.8	24.2	24.3	25.4	25.8	26.8	
GE 14000	12.5	14.1	18.5	20.2	20.9	21.8	22.9	23.2	23.7	23.9	24.3	24.4	25.5	25.9	26.9	
GE 12000	12.5	14.2	18.6	20.4	21.1	22.0	23.1	23.4	23.9	24.1	24.5	24.7	25.8	26.2	27.2	
GE 10000	13.1	14.9	19.6	21.5	22.2	23.2	24.3	24.6	25.1	25.3	25.7	25.9	27.0	27.4	28.4	
GE 9000	13.2	15.1	19.6	21.7	22.4	23.4	24.5	24.9	25.4	25.6	26.0	26.2	27.3	27.7	28.7	
GE 8000	14.4	16.4	21.8	24.1	25.0	26.2	27.4	27.9	28.5	28.7	29.1	29.3	30.4	30.9	31.8	
GE 7000	15.6	17.7	23.6	26.1	27.1	28.4	29.7	30.2	30.9	31.1	31.6	31.8	32.9	33.4	34.4	
GE 6000	15.8	17.9	23.9	26.4	27.4	28.7	30.0	30.5	31.2	31.4	31.9	32.1	33.3	33.7	34.7	
GE 5000	17.4	19.6	26.2	28.8	29.8	31.2	32.6	33.3	34.1	34.3	34.8	35.0	36.1	36.6	37.6	
GE 4500	18.4	20.7	27.6	30.4	31.4	32.9	34.5	35.1	35.9	36.2	36.6	36.9	38.0	38.5	39.5	
GE 4000	20.1	22.6	30.3	33.2	34.4	35.9	37.7	38.3	39.1	39.4	39.9	40.2	41.4	41.8	42.8	
GE 3500	21.7	24.3	32.6	35.3	36.4	38.1	39.9	40.5	41.5	41.8	42.3	42.6	43.7	44.2	45.2	
GE 3000	25.4	28.5	37.1	40.4	41.8	43.8	46.0	46.7	47.8	48.2	48.7	49.0	50.3	50.7	51.8	
GE 2500	27.6	31.0	40.2	43.8	45.3	47.5	49.8	50.6	51.8	52.2	52.7	53.0	54.3	54.8	55.8	
GE 2000	29.5	33.5	43.8	47.9	49.5	52.0	54.5	55.4	56.8	57.2	57.7	58.0	59.3	59.8	60.8	
GE 1800	30.0	33.9	44.6	48.8	50.5	53.1	55.8	56.7	58.1	58.4	59.0	59.3	60.5	61.0	62.1	
GE 1500	31.4	35.8	47.5	52.2	54.1	57.1	60.2	61.1	62.7	63.1	63.7	64.0	65.3	65.7	66.6	
GE 1200	32.5	37.1	50.1	55.5	57.6	61.3	65.1	66.1	68.0	68.4	69.0	69.4	70.7	71.2	72.2	
GE 1000	32.7	37.5	51.8	58.0	60.3	64.4	68.7	69.8	72.0	72.5	73.2	73.5	74.8	75.3	76.4	
GE 900	32.8	37.6	52.2	58.9	61.4	65.7	70.1	71.3	73.6	74.1	74.9	75.2	76.6	77.1	78.2	
GE 800	32.9	37.8	52.8	59.8	62.4	67.1	71.8	73.0	75.4	76.0	76.8	77.2	78.6	79.1	80.2	
GE 700	33.0	37.9	53.5	60.9	63.6	68.7	73.8	75.1	77.7	78.3	79.2	79.7	81.1	81.7	82.8	
GE 600	33.0	38.0	53.9	61.6	64.7	70.3	75.7	77.1	79.9	80.7	81.6	82.2	83.6	84.1	85.2	
GE 500	33.1	38.1	54.1	62.0	65.3	71.4	77.6	79.2	82.4	83.3	84.3	84.9	86.5	87.0	88.2	
GE 400	33.2	38.2	54.3	62.3	65.6	72.4	79.0	80.9	84.8	85.7	86.9	87.5	89.2	89.8	91.0	
GE 300	33.2	38.2	54.3	62.3	65.7	72.5	79.5	81.5	85.8	86.9	88.4	89.3	91.2	92.0	93.5	
GE 200	33.2	38.2	54.3	62.3	65.7	72.6	79.6	81.7	86.3	87.5	89.2	90.4	93.4	94.4	96.7	
GE 100	33.2	38.2	54.3	62.3	65.7	72.6	79.6	81.7	86.3	87.6	89.3	90.7	94.2	95.6	99.1	
GE 0	33.2	38.3	54.3	62.4	65.8	72.6	79.7	81.8	86.4	87.7	89.4	90.7	94.4	95.9	100.0	

TOTAL NUMBER OF OBSERVATIONS: 7097

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: DEC HOURS(LST): 0000-0200

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 96	GE 80	GE 64	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		7.4	8.2	11.6	15.1	15.8	16.7	18.8	18.8	19.0	19.0	19.8	19.8	20.5	20.5	20.7
GE 20000		8.0	9.3	12.6	16.6	17.2	18.1	20.5	20.5	20.7	20.7	21.6	21.6	22.3	22.3	22.7
GE 18000		8.1	9.4	13.2	17.1	17.7	18.6	21.0	21.0	21.4	21.4	22.3	22.3	22.9	22.9	23.5
GE 16000		8.1	9.4	13.2	17.1	17.7	18.6	21.0	21.0	21.4	21.4	22.3	22.3	22.9	22.9	23.5
GE 14000		8.1	9.4	13.2	17.1	17.7	18.6	21.0	21.0	21.4	21.4	22.3	22.3	22.9	22.9	23.5
GE 12000		8.1	9.4	13.2	17.1	17.7	18.6	21.0	21.0	21.4	21.4	22.3	22.3	22.9	22.9	23.5
GE 10000		9.6	11.0	14.7	18.6	19.4	20.3	22.8	22.8	23.2	23.2	24.1	24.1	24.8	24.8	25.3
GE 9000		9.8	11.1	14.9	18.9	19.7	20.6	23.1	23.1	23.5	23.5	24.4	24.4	25.0	25.0	25.6
GE 8000		10.6	11.9	15.9	20.1	21.0	21.9	24.9	24.9	25.3	25.3	26.2	26.3	27.0	27.0	27.5
GE 7000		11.3	12.6	16.9	21.5	22.4	23.5	26.7	26.7	27.1	27.1	28.0	28.2	28.8	28.8	29.3
GE 6000		11.7	13.0	17.3	21.9	22.8	23.9	27.1	27.1	27.5	27.5	28.4	28.6	29.2	29.2	29.7
GE 5000		12.5	14.1	18.8	23.3	24.3	25.3	28.6	28.6	28.9	28.9	29.9	30.0	30.6	30.6	31.2
GE 4500		13.6	15.3	20.1	24.6	25.6	26.6	29.9	29.9	30.2	30.2	31.2	31.3	31.9	31.9	32.5
GE 4000		14.6	16.4	21.9	26.5	27.4	28.4	31.7	31.7	32.1	32.1	33.0	33.1	33.8	33.8	34.3
GE 3500		16.3	18.3	24.3	29.2	30.2	31.7	34.9	34.9	35.3	35.3	36.2	36.4	37.0	37.0	37.5
GE 3000		21.1	23.3	31.0	36.4	37.5	39.2	42.9	43.0	43.4	43.4	44.5	45.1	45.8	45.8	46.3
GE 2500		22.3	24.5	33.2	39.0	40.2	41.9	45.6	45.9	46.4	46.4	47.5	48.1	48.8	48.8	49.3
GE 2000		25.3	27.5	38.5	45.2	46.9	48.9	53.6	53.7	54.2	54.2	55.3	55.9	56.6	56.6	57.1
GE 1800		25.8	28.0	39.1	46.2	47.8	49.8	54.5	54.6	55.1	55.1	56.2	56.8	57.5	57.5	58.0
GE 1500		27.6	30.2	42.5	50.7	52.4	54.9	60.0	60.4	60.9	61.1	62.2	62.8	63.5	63.5	64.0
GE 1200		28.4	31.8	45.6	54.6	56.7	59.7	65.7	66.4	67.0	67.3	68.3	69.0	69.6	69.6	70.1
GE 1000		29.9	33.2	48.0	58.4	60.5	64.0	70.7	71.3	72.1	72.5	73.7	74.3	75.0	75.0	75.5
GE 900		29.9	33.2	48.4	59.2	61.7	65.4	72.6	73.3	74.1	74.4	75.6	76.3	76.9	76.9	77.4
GE 800		30.1	33.9	49.0	60.4	63.2	67.0	74.2	74.8	75.6	76.0	77.3	78.0	79.1	79.1	79.7
GE 700		30.5	34.3	50.1	61.5	64.5	68.7	76.5	77.3	78.2	78.6	79.9	80.6	81.7	81.7	82.3
GE 600		30.5	34.3	50.2	61.9	65.6	70.4	78.7	79.5	80.8	81.5	82.8	83.4	84.6	84.6	85.1
GE 500		30.5	34.3	50.2	62.3	66.0	71.4	80.6	81.5	83.3	84.2	85.8	86.8	88.0	88.0	88.5
GE 400		30.5	34.3	50.5	62.7	66.4	72.0	82.0	83.4	85.5	86.4	88.1	89.3	90.7	90.7	91.3
GE 300		30.5	34.3	50.5	62.7	66.4	72.2	83.2	85.3	87.4	88.5	90.4	91.5	93.0	93.4	94.0
GE 200		30.5	34.3	50.5	62.7	66.4	72.4	83.6	86.2	88.7	90.4	92.4	94.3	96.0	96.7	97.7
GE 100		30.5	34.4	50.6	62.8	66.5	72.5	83.7	86.4	88.9	90.7	93.2	95.3	97.3	98.4	99.9
GE 0		30.5	34.4	50.6	62.8	66.5	72.5	83.7	86.4	88.9	90.7	93.2	95.3	97.3	98.4	100.0

TOTAL NUMBER OF OBSERVATIONS: 767

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10687D STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: DEC HOURS(LST): 0300-0500

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		8.9	10.1	12.3	16.0	16.4	17.9	19.1	19.8	19.8	19.8	20.0	20.1	20.4	20.5	20.9
GE 20000		9.1	10.2	12.4	16.6	17.0	18.5	19.8	20.4	20.5	20.5	20.9	21.0	21.2	21.4	21.7
GE 18000		9.3	10.4	12.9	17.1	17.5	19.0	20.2	20.9	21.2	21.2	21.6	21.7	22.0	22.2	22.6
GE 16000		9.3	10.4	12.9	17.1	17.5	19.0	20.2	20.9	21.2	21.2	21.6	21.7	22.0	22.2	22.6
GE 14000		9.3	10.4	12.9	17.1	17.5	19.0	20.2	20.9	21.2	21.2	21.6	21.7	22.0	22.2	22.6
GE 12000		9.3	10.4	12.9	17.1	17.5	19.0	20.2	20.9	21.2	21.2	21.6	21.7	22.0	22.2	22.6
GE 10000		10.1	11.2	13.8	18.0	18.4	19.9	21.4	22.0	22.4	22.4	22.7	22.9	23.1	23.4	23.9
GE 9000		10.6	11.7	14.4	18.6	19.0	20.5	22.0	22.6	23.0	23.0	23.4	23.5	23.7	24.0	24.5
GE 8000		11.2	12.4	15.3	19.5	20.0	21.5	23.2	23.9	24.2	24.2	24.6	24.7	25.0	25.2	25.7
GE 7000		11.6	12.8	15.8	20.0	20.5	22.0	24.0	24.6	25.0	25.0	25.3	25.5	25.7	26.0	26.5
GE 6000		11.6	12.8	15.8	20.0	20.5	22.0	24.0	24.6	25.0	25.0	25.3	25.5	25.7	26.0	26.5
GE 5000		12.3	13.5	16.9	21.5	22.0	23.5	25.5	26.1	26.5	26.5	26.8	27.0	27.2	27.5	28.0
GE 4500		13.9	15.3	19.4	23.6	24.1	25.8	27.8	28.4	28.8	28.8	29.2	29.3	29.6	29.8	30.3
GE 4000		15.4	16.8	21.1	25.7	26.2	28.0	29.9	30.6	30.9	30.9	31.3	31.4	31.7	31.9	32.4
GE 3500		16.5	17.9	22.6	27.7	28.2	30.3	32.3	33.0	33.4	33.4	33.8	33.9	34.2	34.4	34.9
GE 3000		20.5	22.4	28.2	33.7	34.3	36.9	39.4	40.1	40.5	40.5	40.9	41.1	41.5	41.7	42.2
GE 2500		21.6	23.6	29.7	35.3	36.1	38.9	41.4	42.1	42.6	42.6	43.1	43.4	43.7	44.0	44.5
GE 2000		25.0	27.5	36.4	42.4	44.1	47.0	49.7	50.6	51.3	51.3	51.8	52.0	52.4	52.7	53.2
GE 1800		25.8	28.3	36.1	44.5	46.2	49.2	51.9	52.8	53.7	53.7	54.2	54.4	54.8	55.0	55.5
GE 1500		27.1	29.9	40.5	47.7	49.8	53.3	56.1	57.0	58.3	58.5	59.0	59.3	59.6	59.9	60.4
GE 1200		29.1	32.5	44.3	52.0	54.3	58.4	61.7	62.7	64.5	64.7	65.2	65.5	65.8	66.1	66.6
GE 1000		30.3	33.8	46.3	55.2	57.4	62.5	66.7	67.8	69.9	70.3	70.8	71.1	71.4	71.7	72.2
GE 900		30.8	34.3	47.3	56.8	59.1	64.5	68.6	70.3	72.4	72.8	73.3	73.5	74.3	74.5	75.0
GE 800		31.3	34.9	48.2	58.0	60.6	66.0	70.6	72.0	74.2	74.5	75.0	75.3	76.3	76.5	77.0
GE 700		31.4	35.3	49.7	60.0	62.9	68.2	73.4	75.2	77.9	78.3	78.8	79.0	80.0	80.2	80.7
GE 600		31.4	35.3	50.1	61.4	64.6	70.1	75.8	77.8	80.6	81.0	81.5	81.9	82.9	83.1	83.6
GE 500		31.4	35.3	50.1	61.9	65.2	71.3	77.9	79.9	83.0	83.4	83.9	84.3	85.3	85.6	86.1
GE 400		31.4	35.3	50.4	62.2	65.7	72.3	79.9	81.9	85.3	85.7	86.5	87.1	88.1	88.3	88.9
GE 300		31.4	35.3	50.4	62.6	66.1	73.3	81.5	84.0	88.1	88.4	89.3	89.9	91.1	91.3	92.2
GE 200		31.4	35.3	50.4	62.7	66.3	73.7	82.2	85.5	89.8	90.8	92.5	93.7	95.0	95.7	97.1
GE 100		31.4	35.3	50.4	62.7	66.3	73.8	82.5	85.7	90.1	91.1	92.8	94.4	96.3	97.5	100.0
GE 0		31.4	35.3	50.4	62.7	66.3	73.8	82.5	85.7	90.1	91.1	92.8	94.4	96.3	97.5	100.0

TOTAL NUMBER OF OBSERVATIONS: 805

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: DEC HOURS(LST): 0600-0800

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	9.5	10.9	13.1	15.4	15.9	16.9	18.0	18.0	18.1	18.1	18.6	18.8	18.8	19.2	19.5	
GE 20000	10.0	11.6	14.1	16.7	17.2	18.2	19.4	19.4	19.5	19.5	20.3	20.6	20.6	20.9	21.3	
GE 18000	10.4	11.9	14.6	17.2	17.6	18.7	19.9	19.9	20.0	20.0	20.8	21.0	21.0	21.4	22.0	
GE 16000	10.4	11.9	14.6	17.3	17.8	18.8	20.0	20.0	20.1	20.1	20.9	21.1	21.1	21.5	22.1	
GE 14000	10.4	11.9	14.6	17.3	17.8	18.8	20.0	20.0	20.1	20.1	20.9	21.1	21.1	21.5	22.1	
GE 12000	10.6	12.1	14.8	17.5	18.0	19.0	20.2	20.2	20.3	20.3	21.1	21.4	21.4	21.7	22.3	
GE 10000	11.1	12.6	15.3	18.1	18.6	19.6	21.0	21.0	21.1	21.1	22.0	22.2	22.2	22.7	23.2	
GE 9000	11.3	12.9	15.5	18.3	18.8	19.9	21.3	21.3	21.4	21.4	22.2	22.4	22.4	22.9	23.5	
GE 8000	12.0	13.6	16.4	19.4	19.9	21.1	22.9	22.9	23.0	23.0	23.8	24.1	24.2	24.8	25.4	
GE 7000	12.7	14.3	17.1	20.1	20.6	22.0	23.8	23.8	23.9	23.9	24.8	25.1	25.2	25.8	26.4	
GE 6000	12.7	14.3	17.1	20.1	20.6	22.0	23.8	23.8	23.9	23.9	24.8	25.1	25.2	25.8	26.4	
GE 5000	13.2	14.7	18.0	21.1	21.6	23.0	25.0	25.0	25.1	25.1	25.9	26.3	26.4	27.0	27.6	
GE 4500	13.6	15.7	19.7	23.0	23.6	25.1	27.2	27.2	27.3	27.3	28.2	28.5	28.6	29.2	29.8	
GE 4000	15.8	17.6	22.3	26.1	26.8	28.3	30.4	30.5	30.7	30.8	31.8	32.1	32.2	32.8	33.4	
GE 3500	16.4	18.3	23.7	27.9	28.6	30.5	32.7	32.9	33.2	33.3	34.2	34.6	34.7	35.3	35.9	
GE 3000	19.4	22.0	27.8	32.5	33.3	36.0	38.3	38.6	39.0	39.1	40.4	40.9	41.0	41.6	42.2	
GE 2500	20.9	23.5	30.3	35.3	36.1	38.8	41.7	41.9	42.5	42.6	43.9	44.4	44.5	45.1	45.7	
GE 2000	24.3	27.8	36.0	41.4	42.6	45.6	48.8	49.1	50.1	50.2	51.6	52.1	52.2	52.8	53.4	
GE 1800	25.5	29.2	37.5	43.5	44.7	47.7	50.9	51.2	52.2	52.3	53.7	54.2	54.3	54.9	55.5	
GE 1500	26.8	30.6	39.4	46.0	47.5	50.7	54.7	54.9	56.1	56.2	57.6	58.1	58.2	58.9	59.5	
GE 1200	28.2	32.4	42.2	49.3	51.2	54.9	59.7	60.2	62.0	62.1	63.6	64.0	64.3	65.0	65.5	
GE 1000	30.0	34.2	44.9	52.7	54.7	59.0	64.3	65.0	67.1	67.3	68.8	69.3	69.5	70.3	70.9	
GE 900	30.4	34.6	45.4	53.9	56.0	60.5	66.1	66.9	69.2	69.5	71.0	71.5	71.7	72.7	73.2	
GE 800	30.5	34.9	46.5	55.7	57.9	62.6	68.3	69.2	71.5	71.8	73.4	73.9	74.3	75.4	75.9	
GE 700	30.7	35.3	47.5	57.7	60.0	65.2	71.0	72.0	74.5	74.9	76.4	77.0	77.5	78.5	79.1	
GE 600	30.8	35.6	47.9	59.1	62.0	67.3	73.8	74.8	77.7	78.3	79.8	80.6	81.2	82.2	82.8	
GE 500	31.0	35.7	48.1	59.6	63.1	68.7	75.9	77.0	80.3	80.8	82.4	83.2	83.8	84.8	85.5	
GE 400	31.0	35.7	48.5	60.5	64.1	70.2	78.0	79.3	82.7	83.4	85.0	85.9	86.4	87.6	88.6	
GE 300	31.0	35.7	48.5	60.5	64.1	70.9	79.3	80.7	84.6	85.5	87.3	88.2	89.1	90.4	91.4	
GE 200	31.0	35.7	48.5	60.5	64.1	71.1	80.3	81.9	86.1	87.5	89.6	91.6	94.5	96.1	98.2	
GE 100	31.0	35.7	48.5	60.5	64.1	71.1	80.3	82.1	86.3	87.7	89.8	91.9	94.9	97.0	99.8	
GE 0	31.0	35.7	48.5	60.5	64.1	71.3	80.4	82.2	86.4	87.9	90.0	92.1	95.0	97.1	100.0	

TOTAL NUMBER OF OBSERVATIONS: 856

GLOBAL CLIMATOLOGY BRANCH — PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
USAFETAC — FROM HOURLY OBSERVATIONS
AIR WEATHER SERVICE/MAC

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER — PERIOD OF RECORD: 77-86
MONTH: DEC HOURS(LST): 0900-1100

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		7.6	9.5	13.1	14.3	14.9	15.7	16.5	16.7	16.9	17.0	17.1	17.2	17.3	17.4	17.7
GE 20000		8.3	10.7	15.2	16.4	17.1	17.9	18.8	19.3	19.5	19.7	19.8	19.9	20.0	20.1	20.3
GE 18000		8.8	11.3	16.4	17.6	18.4	19.2	20.2	20.7	20.9	21.2	21.3	21.4	21.5	21.6	22.0
GE 16000		8.8	11.3	16.4	17.6	18.4	19.2	20.2	20.7	20.9	21.2	21.3	21.4	21.5	21.6	22.0
GE 14000		8.8	11.3	16.4	17.6	18.4	19.2	20.2	20.7	20.9	21.3	21.4	21.5	21.6	21.7	22.1
GE 12000		9.0	11.4	16.9	18.0	19.2	20.0	21.0	21.5	21.7	22.1	22.2	22.3	22.4	22.6	22.9
GE 10000		9.5	12.2	17.8	19.1	20.2	21.2	22.3	22.8	23.0	23.4	23.5	23.6	23.7	23.8	24.2
GE 9000		9.9	12.6	18.1	19.4	20.6	21.5	22.7	23.1	23.4	23.7	23.8	24.0	24.1	24.2	24.5
GE 8000		11.9	14.7	20.8	22.4	23.7	24.8	26.2	26.6	26.9	27.2	27.3	27.6	27.8	28.3	28.6
GE 7000		13.8	16.9	23.3	24.9	26.2	27.2	28.8	29.3	29.7	30.0	30.1	30.3	30.6	31.0	31.4
GE 6000		13.8	16.9	23.3	24.9	26.2	27.2	28.8	29.3	29.7	30.0	30.1	30.3	30.6	31.0	31.4
GE 5000		14.4	17.7	24.8	26.4	26.0	29.1	30.8	31.3	31.6	32.0	32.1	32.3	32.6	33.0	33.4
GE 4500		15.0	18.4	25.9	27.7	29.3	30.5	32.4	32.9	33.3	33.6	33.7	34.0	34.2	34.7	35.0
GE 4000		16.4	20.0	28.4	30.3	32.0	33.1	35.1	35.6	35.9	36.3	36.4	36.6	37.0	37.4	37.8
GE 3500		17.7	21.6	30.2	32.4	34.1	35.6	37.6	38.0	38.4	38.7	38.8	39.1	39.4	39.9	40.2
GE 3000		19.4	23.6	32.7	35.5	37.1	39.1	41.0	41.6	42.0	42.3	42.4	42.7	43.0	43.5	43.8
GE 2500		22.0	26.2	35.9	38.8	40.6	42.9	45.3	45.9	46.3	46.6	46.7	47.0	47.3	47.8	48.1
GE 2000		25.6	29.5	40.3	44.8	46.9	49.5	52.4	53.0	53.5	53.8	54.0	54.3	54.7	55.1	55.5
GE 1800		25.6	30.1	40.9	45.6	47.8	50.5	53.4	54.0	54.4	54.8	54.9	55.2	55.6	56.0	56.4
GE 1500		27.4	32.2	43.8	49.7	52.4	55.5	58.5	59.2	60.1	60.7	60.8	61.2	61.9	62.3	62.7
GE 1200		28.6	33.5	45.9	53.3	56.2	59.4	62.7	63.5	65.7	66.4	66.5	66.9	67.8	68.3	68.6
GE 1000		29.1	34.2	47.9	56.2	59.3	62.7	66.3	67.1	69.7	70.5	70.6	71.0	72.2	72.7	73.0
GE 900		29.1	34.2	48.1	56.5	59.7	63.3	67.0	67.8	70.8	71.6	71.7	72.2	73.4	73.8	74.2
GE 800		29.4	34.5	49.1	58.4	61.7	65.3	69.3	70.1	73.7	74.5	74.6	75.3	76.6	77.1	77.4
GE 700		29.8	35.0	49.5	60.0	63.6	67.9	72.6	73.5	77.4	78.5	78.7	79.3	80.6	81.0	81.4
GE 600		30.0	35.5	50.2	61.0	64.6	69.2	74.3	75.3	79.3	80.5	80.7	81.4	82.8	83.3	83.6
GE 500		30.2	35.7	50.6	61.6	65.6	70.5	76.9	77.9	82.1	83.4	83.8	84.7	86.4	87.0	87.6
GE 400		30.2	35.8	51.2	62.3	66.6	71.6	78.5	79.8	84.9	86.5	87.2	88.1	89.9	90.5	91.0
GE 300		30.2	35.8	51.2	62.3	66.9	72.4	80.0	81.4	87.1	89.1	90.6	92.1	94.4	95.0	95.9
GE 200		30.2	35.8	51.2	62.3	66.9	72.4	80.0	81.5	87.4	89.5	91.2	92.9	96.4	97.2	99.1
GE 100		30.2	35.8	51.2	62.3	66.9	72.4	80.0	81.5	87.7	89.8	91.4	93.1	96.7	97.6	99.7
GE 0		30.2	35.8	51.2	62.3	66.9	72.4	80.0	81.5	87.7	89.8	91.4	93.1	96.7	97.6	100.0

TOTAL NUMBER OF OBSERVATIONS: 860

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: DEC HOURS(LST): 1200-1400

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		11.4	13.2	15.7	16.6	17.6	18.2	18.2	18.2	18.4	18.6	18.6	18.6	18.6	18.6	18.6
GE 20000		13.6	15.6	19.4	20.3	21.5	22.1	22.1	22.1	22.6	22.7	22.7	22.7	22.7	22.7	22.7
GE 18000		14.1	16.5	20.7	21.9	23.0	23.6	23.6	23.6	24.1	24.2	24.2	24.2	24.2	24.2	24.2
GE 16000		14.1	16.5	20.9	22.1	23.3	23.9	23.9	23.9	24.3	24.4	24.4	24.4	24.4	24.4	24.4
GE 14000		14.1	16.5	21.0	22.2	23.4	24.0	24.0	24.0	24.4	24.6	24.6	24.6	24.6	24.6	24.6
GE 12000		14.1	16.6	21.3	22.4	23.7	24.3	24.3	24.3	24.8	24.9	24.9	24.9	24.9	24.9	24.9
GE 10000		14.7	17.3	22.1	23.3	24.6	25.4	25.4	25.4	25.9	26.0	26.0	26.0	26.0	26.0	26.0
GE 9000		14.8	17.4	22.8	24.0	25.3	26.3	26.3	26.3	27.0	27.1	27.1	27.1	27.1	27.1	27.1
GE 8000		17.7	20.7	26.7	28.6	29.8	31.1	31.1	31.1	31.8	32.0	32.0	32.0	32.0	32.0	32.0
GE 7000		19.0	22.1	28.2	30.6	32.0	33.3	33.3	33.3	34.3	34.4	34.4	34.4	34.4	34.4	34.4
GE 6000		19.3	22.3	28.4	30.8	32.2	33.5	33.5	33.5	34.5	34.7	34.7	34.7	34.7	34.7	34.7
GE 5000		20.6	24.0	30.4	32.9	34.3	35.7	35.7	35.7	36.8	36.9	36.9	36.9	36.9	36.9	36.9
GE 4500		21.6	25.0	31.5	34.0	35.4	36.8	36.8	36.8	37.8	38.0	38.0	38.0	38.0	38.0	38.0
GE 4000		23.1	26.8	34.0	36.5	38.1	39.8	39.8	39.8	40.9	41.0	41.0	41.0	41.0	41.0	41.0
GE 3500		25.4	29.1	36.4	39.0	40.5	42.3	42.3	42.3	43.4	43.5	43.5	43.5	43.5	43.5	43.5
GE 3000		30.2	34.1	42.2	45.1	46.7	48.5	48.5	48.5	49.6	49.7	49.7	49.7	49.7	49.7	49.7
GE 2500		33.5	37.6	45.9	49.7	51.2	53.2	53.2	53.2	54.5	54.6	54.6	54.6	54.6	54.6	54.6
GE 2000		35.8	40.1	49.5	54.2	56.3	58.5	59.0	59.0	60.5	60.6	60.6	60.6	60.8	60.8	60.8
GE 1800		36.3	40.5	50.1	55.0	57.2	59.7	60.2	60.2	61.7	61.8	61.8	61.8	61.9	61.9	61.9
GE 1600		38.7	42.9	54.3	60.2	62.5	65.3	65.8	65.9	67.6	67.7	67.8	67.8	67.9	67.9	67.9
GE 1200		39.8	44.4	57.6	64.5	67.0	70.0	70.5	70.7	72.6	72.7	73.0	73.2	73.3	73.3	73.3
GE 1000		40.7	45.2	59.8	68.0	70.7	74.1	74.9	75.1	77.6	77.7	78.0	78.4	78.5	78.5	78.5
GE 900		41.0	45.6	60.6	69.3	72.0	75.7	76.4	76.6	79.2	79.3	79.7	80.1	80.3	80.3	80.3
GE 800		41.2	45.8	61.7	70.7	73.9	77.8	78.5	78.8	81.9	82.1	82.5	83.0	83.2	83.2	83.2
GE 700		41.2	45.9	62.2	71.8	75.2	79.6	81.2	81.6	84.8	85.3	85.8	86.3	86.8	86.8	86.8
GE 600		41.4	46.1	62.4	72.3	75.8	80.4	82.3	82.8	86.1	86.7	87.2	87.7	88.4	88.4	88.4
GE 500		41.5	46.4	62.9	72.9	76.6	81.4	84.4	85.3	88.8	89.4	89.9	90.6	91.3	91.3	91.5
GE 400		41.5	46.4	62.9	73.1	77.7	82.6	86.5	88.0	92.0	92.8	93.3	94.0	94.7	94.7	95.1
GE 300		41.5	46.4	62.9	73.1	77.7	82.6	86.8	88.5	92.8	93.7	94.5	95.3	96.6	96.7	97.2
GE 200		41.5	46.4	62.9	73.2	77.8	82.7	87.2	88.8	93.3	94.1	95.3	96.4	98.0	98.7	99.6
GE 100		41.5	46.4	62.9	73.2	77.8	82.7	87.2	88.8	93.3	94.1	95.3	96.4	98.0	98.7	100.0
GE 0		41.5	46.4	62.9	73.2	77.8	82.7	87.2	88.8	93.3	94.1	95.3	96.4	98.0	98.7	100.0

TOTAL NUMBER OF OBSERVATIONS: 851

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: DEC HOURS(LST): 1500-1700

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		11.7	13.5	17.9	18.6	18.8	19.3	19.5	19.5	19.5	19.5	19.8	19.8	19.9	19.9	20.0
GE 20000		13.7	15.6	20.9	21.7	22.0	22.5	23.1	23.1	23.1	23.1	23.3	23.3	23.5	23.5	23.7
GE 18000		14.7	16.8	22.9	23.8	24.2	24.6	25.2	25.2	25.2	25.2	25.5	25.5	25.6	25.6	25.8
GE 16000		14.7	16.8	22.9	24.2	24.5	25.0	25.6	25.6	25.6	25.6	25.8	25.8	25.9	25.9	26.2
GE 14000		14.7	16.8	23.0	24.3	24.6	25.1	25.7	25.7	25.7	25.7	25.9	25.9	26.1	26.1	26.3
GE 12000		14.7	16.9	23.1	24.4	24.6	25.2	25.8	25.8	25.8	25.8	26.1	26.1	26.2	26.2	26.4
GE 10000		15.3	17.7	23.9	25.4	25.8	26.4	27.0	27.0	27.0	27.0	27.3	27.3	27.4	27.4	27.6
GE 9000		16.0	18.4	24.8	26.2	26.7	27.8	28.4	28.4	28.4	28.4	28.7	28.7	28.8	28.8	29.0
GE 8000		16.5	21.3	29.6	31.0	31.6	32.9	33.6	33.8	33.8	33.8	34.0	34.0	34.1	34.1	34.4
GE 7000		19.5	22.7	31.9	33.4	34.0	35.3	36.1	36.1	36.3	36.3	36.5	36.5	36.6	36.6	36.8
GE 6000		19.7	22.9	32.1	33.6	34.2	35.5	36.4	36.4	36.5	36.5	36.7	36.7	36.8	36.8	37.1
GE 5000		20.5	24.3	34.0	35.7	36.3	37.6	38.4	38.4	38.5	38.5	38.9	38.9	39.0	39.0	39.2
GE 4500		21.3	25.1	35.0	36.6	37.2	38.5	39.3	39.3	39.5	39.5	39.8	39.8	39.9	39.9	40.2
GE 4000		23.3	27.5	37.7	39.9	40.5	41.8	42.7	42.8	43.0	43.0	43.4	43.4	43.5	43.5	43.7
GE 3500		25.6	29.9	40.3	42.8	43.4	44.7	45.5	45.6	45.9	45.9	46.2	46.2	46.3	46.3	46.6
GE 3000		29.3	33.9	45.3	48.2	48.8	50.6	51.5	51.8	52.1	52.1	52.5	52.5	52.6	52.6	52.8
GE 2500		32.1	37.0	48.7	52.4	53.1	55.1	56.0	56.4	56.8	56.8	57.2	57.2	57.3	57.3	57.6
GE 2000		35.0	39.9	52.5	57.0	57.9	60.4	62.0	62.3	63.0	63.0	63.5	63.5	63.6	63.6	63.9
GE 1800		35.4	40.5	53.9	58.6	59.6	62.1	63.6	64.0	64.7	64.7	65.2	65.2	65.3	65.3	65.5
GE 1500		38.0	43.5	57.6	63.2	64.3	66.9	68.8	69.3	70.1	70.1	70.6	70.6	70.7	70.7	71.0
GE 1200		38.7	44.5	60.2	66.4	68.2	71.4	73.5	74.2	75.4	75.4	75.8	75.8	75.9	75.9	76.2
GE 1000		39.2	45.3	61.7	68.4	70.4	74.3	76.4	77.1	78.6	79.3	80.0	80.0	80.1	80.1	80.3
GE 900		39.6	45.7	63.3	70.3	72.3	76.4	78.8	79.6	81.5	82.2	82.9	82.9	83.4	83.4	83.6
GE 800		39.6	45.7	64.0	71.2	73.3	77.6	80.5	81.4	83.4	84.2	85.0	85.1	85.5	85.5	85.8
GE 700		40.0	46.3	65.0	72.5	74.6	79.1	82.3	83.5	85.7	86.7	87.4	87.6	88.3	88.3	88.5
GE 600		40.0	46.3	65.4	73.2	75.6	80.5	84.4	85.7	88.0	89.1	89.8	89.9	90.8	90.8	91.0
GE 500		40.0	46.3	65.4	73.6	76.2	81.6	85.9	87.4	89.8	91.0	91.7	91.8	92.7	92.7	92.9
GE 400		40.0	46.3	65.4	73.7	76.3	82.2	86.7	88.4	90.8	92.1	93.1	93.5	94.7	94.7	94.9
GE 300		40.0	46.3	65.4	73.7	76.3	82.2	87.3	89.3	92.1	93.5	94.7	95.7	96.9	97.0	97.4
GE 200		40.0	46.3	65.4	73.7	76.3	82.2	87.3	89.3	92.2	93.6	94.8	96.1	97.9	98.3	99.8
GE 100		40.0	46.3	65.4	73.7	76.3	82.2	87.3	89.3	92.2	93.6	94.8	96.1	97.9	98.5	99.9
GE 0		40.0	46.3	65.4	73.7	76.3	82.2	87.3	89.3	92.2	93.6	94.8	96.1	97.9	98.5	100.0

TOTAL NUMBER OF OBSERVATIONS: 844

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106970 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: DEC HOURS(LST): 1800-2000

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	9.2	10.7	14.4	16.9	17.9	19.0	19.5	19.5	20.1	20.1	20.2	20.3	20.6	20.8	21.3	
GE 20000	9.7	11.3	15.4	18.2	19.1	20.3	20.9	20.9	21.5	21.5	21.8	21.9	22.3	22.5	23.1	
GE 18000	10.2	11.7	16.8	19.7	20.7	21.9	22.5	22.5	23.1	23.1	23.4	23.5	24.1	24.3	24.9	
GE 16000	10.2	11.7	16.8	19.7	20.7	21.9	22.5	22.5	23.1	23.1	23.4	23.5	24.1	24.3	24.9	
GE 14000	10.2	11.7	16.8	19.7	20.7	21.9	22.5	22.5	23.1	23.1	23.4	23.5	24.1	24.3	24.9	
GE 12000	10.2	11.7	16.8	20.0	20.9	22.2	22.8	22.8	23.4	23.4	23.6	23.7	24.3	24.6	25.2	
GE 10000	10.7	12.2	17.7	20.8	21.8	23.0	23.6	23.6	24.2	24.2	24.5	24.6	25.2	25.4	26.0	
GE 9000	10.8	12.3	18.0	21.2	22.2	23.6	24.2	24.2	24.8	24.8	25.1	25.2	25.8	26.0	26.6	
GE 8000	12.7	14.4	21.5	25.1	26.0	27.6	28.8	28.8	29.4	29.4	29.9	30.0	30.6	30.9	31.5	
GE 7000	13.2	15.1	23.4	26.9	27.8	29.4	30.8	30.8	31.6	31.6	32.1	32.2	32.8	33.1	33.7	
GE 6000	13.3	15.4	23.7	27.2	28.2	29.8	31.1	31.1	32.0	32.0	32.4	32.6	33.2	33.4	34.0	
GE 5000	14.5	16.7	25.5	29.3	30.3	31.8	33.2	33.2	34.0	34.0	34.5	34.6	35.2	35.5	36.1	
GE 4500	15.6	17.8	26.8	30.9	31.8	33.4	34.7	34.7	35.6	35.6	36.2	36.3	37.0	37.3	37.9	
GE 4000	17.2	19.6	28.8	34.1	35.2	36.8	38.1	38.3	39.2	39.5	40.1	40.2	40.9	41.2	41.8	
GE 3500	20.8	23.2	32.6	38.3	39.3	40.9	42.3	42.4	43.3	43.6	44.2	44.3	45.0	45.3	45.9	
GE 3000	24.3	27.0	37.3	43.1	44.2	46.1	47.5	47.6	48.5	48.8	49.5	49.6	50.4	50.6	51.2	
GE 2500	26.8	29.7	40.4	46.5	47.7	49.9	51.9	52.1	53.0	53.3	54.0	54.1	54.8	55.1	55.7	
GE 2000	28.9	31.8	45.9	52.7	54.1	56.9	59.0	59.1	60.0	60.3	61.0	61.1	61.9	62.1	62.7	
GE 1800	29.4	32.4	47.0	54.0	55.4	58.5	60.5	60.7	61.6	61.9	62.6	62.7	63.4	63.7	64.3	
GE 1500	30.9	34.4	50.4	58.2	59.9	63.9	67.6	67.8	68.8	69.0	69.7	69.9	70.6	70.8	71.4	
GE 1200	31.2	35.2	51.9	60.4	63.0	67.3	71.2	71.5	72.6	73.0	73.7	73.8	74.7	74.9	75.5	
GE 1000	31.6	35.8	53.5	62.1	64.8	70.0	74.1	74.7	76.0	76.5	77.2	77.5	78.5	78.7	79.3	
GE 900	31.6	35.8	54.0	62.7	65.4	70.7	75.3	75.9	77.6	78.2	78.9	79.2	80.4	80.6	81.2	
GE 800	31.8	36.0	54.4	63.7	66.3	71.8	76.8	77.4	79.1	79.7	80.4	81.0	82.3	82.6	83.2	
GE 700	32.2	36.6	55.0	64.6	67.3	73.4	78.5	79.4	81.2	81.8	82.6	83.2	84.6	85.0	85.6	
GE 600	32.2	36.7	55.3	65.4	68.2	74.2	79.8	80.9	83.1	83.7	84.6	85.4	87.2	87.5	88.1	
GE 500	32.2	36.8	55.7	65.7	68.5	75.2	81.1	82.2	84.5	85.5	86.7	87.4	89.2	89.7	90.3	
GE 400	32.2	36.8	55.7	65.7	69.0	76.0	82.2	83.8	86.2	87.2	88.6	89.3	91.5	92.1	92.7	
GE 300	32.2	36.8	55.7	65.7	69.0	76.0	83.1	84.7	87.3	88.4	90.6	92.0	94.8	95.8	96.7	
GE 200	32.2	36.8	55.7	65.7	69.0	76.0	83.1	84.7	87.7	89.0	91.3	92.9	96.5	97.6	99.2	
GE 100	32.2	36.8	55.7	65.7	69.0	76.0	83.1	84.7	87.7	89.0	91.3	92.9	96.5	97.8	99.6	
GE 0	32.2	36.8	55.7	65.7	69.0	76.0	83.1	84.7	87.7	89.0	91.3	92.9	96.7	98.1	100.0	

TOTAL NUMBER OF OBSERVATIONS: 826

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: DEC HOURS(LST): 2100-2300

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	8.5	13.5	14.5	16.7	17.9	18.5	20.2	20.2	20.6	21.0	21.0	21.0	21.2	21.7	22.6	
GE 20000	8.6	13.8	14.8	17.2	18.5	19.5	21.2	21.2	21.6	22.0	22.0	22.0	22.2	22.8	23.7	
GE 18000	9.1	14.3	16.3	18.8	20.1	21.1	22.8	22.8	23.1	23.5	23.5	23.5	23.8	24.3	25.2	
GE 16000	9.1	14.3	16.3	18.8	20.1	21.1	22.8	22.8	23.1	23.5	23.5	23.5	23.8	24.3	25.2	
GE 14000	9.1	14.3	16.3	18.8	20.1	21.1	22.8	22.8	23.1	23.5	23.5	23.5	23.8	24.3	25.2	
GE 12000	9.1	14.3	16.3	18.9	20.2	21.2	22.9	22.9	23.3	23.7	23.7	23.7	23.9	24.4	25.3	
GE 10000	9.3	14.4	16.7	19.3	20.7	22.0	23.7	23.7	24.0	24.4	24.4	24.4	24.7	25.2	26.1	
GE 9000	9.3	14.4	16.8	19.4	20.8	22.1	23.8	23.8	24.2	24.6	24.6	24.6	24.8	25.3	26.2	
GE 8000	10.7	15.9	18.6	21.7	23.1	24.4	26.5	26.5	26.9	27.2	27.4	27.4	27.6	28.1	29.0	
GE 7000	11.4	16.6	20.3	23.4	24.8	26.1	28.1	28.1	28.5	28.9	29.0	29.0	29.3	29.8	30.7	
GE 6000	11.6	16.8	20.4	23.5	24.9	26.2	28.3	28.3	28.7	29.0	29.2	29.2	29.4	29.9	30.8	
GE 5000	12.9	18.0	22.5	25.6	27.0	28.3	30.3	30.3	30.7	31.1	31.2	31.4	31.6	32.1	33.0	
GE 4500	13.6	18.8	23.8	26.9	28.5	29.8	31.9	31.9	32.3	32.6	32.8	32.9	33.2	33.7	34.6	
GE 4000	16.8	19.0	27.6	31.5	33.2	34.6	36.9	36.9	37.3	37.9	38.2	38.3	38.6	39.1	40.0	
GE 3500	18.8	21.0	29.8	33.8	35.9	37.4	39.7	39.7	40.1	40.7	41.0	41.1	41.4	41.9	42.8	
GE 3000	22.2	25.2	35.5	40.0	42.2	44.0	46.5	46.5	47.0	47.8	48.2	48.5	48.8	49.5	50.4	
GE 2500	23.9	27.1	38.6	43.2	45.5	47.9	50.9	50.9	51.4	52.2	52.6	52.8	53.2	53.9	54.8	
GE 2000	26.5	29.7	44.0	49.7	52.3	55.4	58.7	58.7	59.3	60.0	60.4	60.7	61.1	61.7	62.6	
GE 1800	26.6	29.8	44.6	50.4	53.0	56.2	59.5	59.5	60.0	60.8	61.2	61.4	61.8	62.5	63.4	
GE 1500	28.5	31.9	47.8	55.0	57.7	61.4	65.4	65.4	66.2	67.0	67.5	67.7	68.1	68.8	69.7	
GE 1200	29.0	32.8	49.5	57.6	60.3	65.2	69.7	69.8	70.7	71.5	72.0	72.2	72.6	73.3	74.2	
GE 1000	29.6	33.7	51.9	60.7	63.5	69.2	74.0	74.3	75.3	76.1	76.6	76.9	77.5	78.1	79.0	
GE 900	29.8	33.7	52.2	60.9	64.1	69.8	74.9	75.2	76.3	77.1	77.9	78.1	78.8	79.4	80.3	
GE 800	29.8	33.8	52.3	61.4	64.7	70.8	76.1	76.3	77.5	78.3	79.2	79.4	80.1	80.7	81.6	
GE 700	30.5	34.4	53.1	62.6	65.9	72.1	77.9	78.1	79.6	80.3	81.2	81.5	82.1	82.8	83.7	
GE 600	30.5	34.4	53.3	63.4	66.7	73.0	79.0	79.3	80.7	81.6	82.5	82.8	83.9	84.6	85.5	
GE 500	30.6	34.6	53.9	63.9	67.2	74.2	80.6	80.8	82.6	84.1	85.3	86.0	87.3	87.9	88.8	
GE 400	30.6	34.6	54.2	64.4	67.9	74.8	82.1	82.6	84.4	85.9	87.1	87.8	89.3	90.0	90.9	
GE 300	30.6	34.6	54.2	64.5	68.0	75.2	83.8	84.8	86.6	88.0	89.7	90.6	92.9	94.1	95.5	
GE 200	30.6	34.6	54.2	64.5	68.0	75.2	83.9	85.0	87.4	88.9	90.9	92.3	95.0	96.9	98.8	
GE 100	30.6	34.6	54.2	64.5	68.0	75.2	83.9	85.0	87.4	88.9	90.9	92.4	95.2	97.4	99.9	
GE 0	30.6	34.6	54.2	64.5	68.0	75.2	83.9	85.0	87.4	88.9	90.9	92.4	95.4	97.6	100.0	

TOTAL NUMBER OF OBSERVATIONS: 778

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106670 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: DEC HOURS(LST): ALL

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS																
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL		9.3	10.9	14.1	16.2	16.9	17.8	18.7	18.8	19.0	19.1	19.3	19.4	19.6	19.8	20.1
GE 20000		10.2	11.9	15.7	18.0	18.7	19.7	20.7	20.9	21.1	21.2	21.5	21.6	21.8	22.0	22.4
GE 18000		10.6	12.5	16.8	19.2	19.9	20.9	21.9	22.1	22.4	22.5	22.8	22.9	23.1	23.3	23.6
GE 16000		10.6	12.5	16.8	19.3	20.0	21.0	22.0	22.2	22.5	22.6	22.9	23.0	23.2	23.4	23.9
GE 14000		10.6	12.5	16.9	19.3	20.1	21.0	22.1	22.2	22.5	22.6	23.0	23.0	23.3	23.5	23.9
GE 12000		10.7	12.6	17.0	19.5	20.3	21.2	22.3	22.4	22.8	22.9	23.2	23.3	23.5	23.7	24.1
GE 10000		11.3	13.3	17.8	20.4	21.2	22.3	23.4	23.5	23.9	24.0	24.3	24.4	24.6	24.8	25.3
GE 9000		11.6	13.5	18.2	20.8	21.7	22.8	24.0	24.1	24.5	24.6	24.9	25.0	25.2	25.4	25.9
GE 8000		13.2	15.3	20.7	23.5	24.5	25.7	27.2	27.4	27.7	27.8	28.2	28.3	28.6	28.8	29.3
GE 7000		14.2	16.4	22.2	25.2	26.1	27.4	29.0	29.1	29.6	29.7	30.1	30.2	30.5	30.7	31.2
GE 6000		14.3	16.5	22.4	25.3	26.3	27.6	29.2	29.3	29.8	29.9	30.3	30.4	30.7	30.9	31.4
GE 5000		15.2	17.6	24.0	27.1	28.0	29.4	31.0	31.1	31.6	31.7	32.1	32.2	32.5	32.7	33.2
GE 4500		16.1	18.6	25.3	28.5	29.5	30.9	32.6	32.7	33.2	33.3	33.7	33.8	34.1	34.4	34.8
GE 4000		17.9	20.6	27.8	31.4	32.5	33.9	35.6	35.8	36.3	36.5	36.9	37.1	37.4	37.6	38.1
GE 3500		19.7	22.5	30.1	34.0	35.1	36.7	38.5	38.7	39.2	39.4	39.8	39.9	40.2	40.5	40.9
GE 3000		23.3	26.5	35.1	39.3	40.5	42.6	44.5	44.7	45.3	45.5	46.0	46.3	46.6	46.9	47.3
GE 2500		25.4	28.7	37.9	42.6	43.9	46.1	48.3	48.6	49.2	49.4	50.0	50.2	50.6	50.8	51.3
GE 2000		28.3	31.8	42.9	48.4	50.2	52.8	55.4	55.7	56.5	56.7	57.3	57.5	57.9	58.2	58.6
GE 1800		28.9	32.5	44.0	49.7	51.5	54.2	56.8	57.1	57.9	58.1	58.7	59.0	59.3	59.6	60.1
GE 1500		30.7	34.6	47.1	53.9	55.9	59.0	62.1	62.5	63.5	63.8	64.4	64.7	65.1	65.3	65.8
GE 1200		31.7	36.0	49.7	57.3	59.6	63.3	66.8	67.4	68.8	69.1	69.8	70.0	70.5	70.8	71.2
GE 1000		32.7	37.0	51.8	60.2	62.7	67.0	70.9	71.5	73.3	73.8	74.4	74.8	75.3	75.6	76.1
GE 900		32.9	37.2	52.5	61.2	63.6	68.3	72.5	73.2	75.1	75.6	76.4	76.7	77.4	77.7	78.2
GE 800		33.0	37.5	53.2	62.5	65.3	69.9	74.3	75.0	77.1	77.7	78.4	78.9	79.7	80.0	80.5
GE 700		33.4	38.0	54.1	63.9	66.8	71.6	76.7	77.6	79.9	80.6	81.4	81.8	82.7	83.1	83.5
GE 600		33.4	38.1	54.4	64.8	68.0	73.2	78.5	79.5	82.1	82.8	83.6	84.2	85.2	85.6	86.0
GE 500		33.5	38.2	54.7	65.2	66.6	74.3	80.4	81.5	84.3	85.2	86.2	86.9	88.0	88.4	88.9
GE 400		33.5	38.3	54.9	65.6	69.3	75.3	82.0	83.4	86.5	87.5	88.7	89.4	90.7	91.1	91.7
GE 300		33.5	38.3	54.9	65.7	69.4	75.7	83.1	84.8	88.3	89.4	90.9	92.0	93.6	94.2	95.1
GE 200		33.5	38.3	54.9	65.7	69.4	75.8	83.4	85.3	89.1	90.5	92.3	93.8	96.2	97.2	98.7
GE 100		33.5	38.3	54.9	65.8	69.4	75.8	83.5	85.4	89.2	90.6	92.4	94.1	96.6	97.9	99.8
GE 0		33.5	38.3	54.9	65.8	69.4	75.8	83.5	85.5	89.2	90.6	92.5	94.1	96.7	97.9	100.0

TOTAL NUMBER OF OBSERVATIONS: 6567

GLOBAL CLIMATOLOGY BRANCH — PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
USAFETAC — FROM HOURLY OBSERVATIONS
AIR WEATHER SERVICE/MAC

STATION NUMBER: 106070 STATION NAME: GRAFENWOHR AAF GER — PERIOD OF RECORD: 77-87
MONTH: ALL HOURS(LST): ALL

CEILING IN FEET	VISIBILITY IN HUNDREDS OF METERS															
	GT 160	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 8	GE 5	GE 4	GE 0
NO CEIL	20.2	22.4	27.3	29.5	30.1	31.3	32.2	32.4	33.0	33.1	33.3	33.5	33.9	34.2	34.7	
GE 20000	23.0	25.6	31.1	33.5	34.2	35.5	36.5	36.7	37.4	37.5	37.7	38.0	38.4	38.7	39.2	
GE 18000	23.6	26.2	31.9	34.4	35.0	36.4	37.4	37.6	38.3	38.4	38.7	38.9	39.4	39.6	40.2	
GE 16000	23.6	26.3	32.0	34.4	35.1	36.5	37.5	37.7	38.4	38.5	38.7	39.0	39.4	39.7	40.3	
GE 14000	23.8	26.4	32.1	34.6	35.3	36.7	37.7	37.9	38.6	38.7	38.9	39.2	39.6	39.9	40.5	
GE 12000	24.2	26.9	32.7	35.2	35.9	37.3	38.4	38.6	39.3	39.4	39.6	39.9	40.3	40.6	41.2	
GE 10000	25.7	28.5	34.7	37.3	38.1	39.5	40.6	40.8	41.6	41.7	42.0	42.2	42.7	42.9	43.5	
GE 9000	26.2	29.1	35.4	38.0	38.8	40.3	41.4	41.6	42.4	42.5	42.7	43.0	43.5	43.7	44.3	
GE 8000	28.8	32.0	38.9	41.8	42.6	44.3	45.5	45.8	46.6	46.7	47.0	47.3	47.7	48.0	48.6	
GE 7000	30.4	33.7	41.1	44.2	45.1	46.9	48.2	48.4	49.3	49.5	49.7	50.0	50.5	50.8	51.4	
GE 6000	30.7	34.1	41.5	44.7	45.5	47.4	48.6	48.9	49.8	50.0	50.2	50.5	51.0	51.3	51.9	
GE 5000	32.6	36.2	44.0	47.3	46.2	50.1	51.5	51.8	52.7	52.9	53.2	53.4	53.9	54.2	54.9	
GE 4500	33.9	37.5	45.4	49.2	50.2	52.2	53.7	54.0	54.9	55.1	55.4	55.7	56.2	56.5	57.1	
GE 4000	37.1	41.0	50.0	53.8	54.8	57.0	58.6	58.9	59.9	60.1	60.4	60.7	61.2	61.6	62.2	
GE 3500	39.1	43.2	52.6	56.5	57.6	59.9	61.6	61.9	62.9	63.1	63.5	63.8	64.3	64.6	65.3	
GE 3000	43.4	47.9	58.2	62.6	63.9	66.4	68.2	68.6	69.8	70.0	70.4	70.7	71.3	71.6	72.2	
GE 2500	45.0	49.6	60.6	65.2	66.5	69.2	71.2	71.6	72.8	73.0	73.4	73.7	74.3	74.6	75.3	
GE 2000	46.6	51.8	63.7	68.8	70.3	73.3	75.5	75.9	77.3	77.5	77.9	78.2	78.8	79.2	79.8	
GE 1800	47.2	52.2	64.4	69.6	71.1	74.2	76.3	76.8	78.2	78.4	78.8	79.2	79.8	80.1	80.8	
GE 1500	48.4	53.7	66.6	72.3	73.9	77.3	79.8	80.3	81.8	82.1	82.5	82.8	83.4	83.8	84.4	
GE 1200	49.1	54.6	68.2	74.4	76.3	80.0	82.7	83.3	84.9	85.2	85.7	86.0	86.7	87.0	87.6	
GE 1000	49.5	55.0	69.2	75.8	77.7	81.7	84.7	85.3	87.2	87.5	88.0	88.4	89.1	89.4	90.1	
GE 900	49.5	55.1	69.5	76.2	78.2	82.4	85.4	86.1	88.0	88.4	88.9	89.3	89.9	90.3	90.9	
GE 800	49.6	55.3	69.9	76.8	78.8	83.1	86.2	86.9	88.9	89.3	89.9	90.3	91.0	91.3	92.0	
GE 700	49.7	55.3	70.1	77.2	79.3	83.8	87.1	87.8	90.0	90.4	91.0	91.4	92.1	92.5	93.2	
GE 600	49.7	55.4	70.3	77.5	79.7	84.4	87.9	88.7	90.9	91.4	92.0	92.5	93.3	93.6	94.3	
GE 500	49.7	55.4	70.4	77.7	80.0	84.8	88.6	89.4	91.9	92.4	93.1	93.7	94.5	94.9	95.6	
GE 400	49.8	55.5	70.5	77.8	80.2	85.1	89.0	90.0	92.6	93.2	94.0	94.6	95.5	95.9	96.6	
GE 300	49.8	55.5	70.5	77.8	80.2	85.2	89.3	90.2	93.0	93.7	94.6	95.3	96.3	96.8	97.6	
GE 200	49.8	55.5	70.5	77.8	80.2	85.2	89.3	90.3	93.2	93.9	94.9	95.7	97.1	97.7	98.9	
GE 100	49.8	55.5	70.5	77.8	80.2	85.2	89.3	90.4	93.2	93.9	94.9	95.8	97.3	98.0	99.7	
GE 0	49.6	55.5	70.5	77.8	80.2	85.2	89.4	90.4	93.3	94.0	95.0	95.8	97.3	98.1	100.0	

TOTAL NUMBER OF OBSERVATIONS: 86035

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR PERIOD OF RECORD: 80-82
MONTH: JAN

PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER

HOURS (LST)	0	1	2	3	4	5	6	7	8	9	10	MEAN	TOTAL OBS
00-02							6.7			13.3	80.0	9.6	15
03-05									11.1		88.9	9.8	9
06-08					11.1						88.9	9.3	9
09-11				5.3	10.5	10.5	5.3				68.4	8.3	19
12-14										25.0	75.0	9.8	4
15-17	5.9				5.9					23.5	64.7	8.8	17
18-20				9.1	9.1		9.1		9.1	9.1	54.5	8.2	11
21-23						14.3	14.3			14.3	57.1	8.6	7
TOTALS	.7			1.8	4.6	3.1	4.4		2.5	10.7	72.2	9.1	91

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR PERIOD OF RECORD: 80-83,85-87
MONTH: FEB

PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER

HOURS (LST)	0	1	2	3	4	5	6	7	8	9	10	MEAN	TOTAL OBS
00-02	16.7										83.3	8.3	6
03-05	12.5			12.5			12.5				62.5	7.4	8
06-08				7.1		7.1				7.1	78.6	9.1	14
09-11		14.3		14.3						14.3	57.1	7.6	7
12-14		25.0									75.0	7.8	4
15-17	14.3			7.1			7.1			28.6	42.9	7.5	14
18-20		14.3		14.3		14.3	28.6				28.6	5.9	7
21-23	14.3	14.3		14.3	14.3						42.9	5.4	7
TOTALS	7.2	8.5		6.7	1.8	2.7	6.0			6.3	58.9	7.4	67

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR PERIOD OF RECORD: 80-83
MONTH: MAR

PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER

HOURS (LST)	0	1	2	3	4	5	6	7	8	9	10	MEAN	TOTAL OBS
00-02		10.0			10.0		10.0				70.0	8.1	10
03-05	25.0									12.5	62.5	7.4	8
06-08					12.5					12.5	75.0	9.1	8
09-11					14.3	14.3	14.3			14.3	42.9	7.7	7
12-14	9.1				9.1					9.1	72.7	8.5	11
15-17				6.7						20.0	73.3	9.3	15
18-20							42.9				57.1	8.3	7
21-23					25.0					12.5	62.5	8.4	8
TOTALS	4.3	1.3		.8	8.9	1.8	8.4			10.1	64.5	8.4	74

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GFR PERIOD OF RECORD: 78-81
MONTH: APR

PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER

HOURS (LST)	0	1	2	3	4	5	6	7	8	9	10	MEAN	TOTAL OBS
00-02	54.5	9.1									36.4	3.7	11
03-05	33.3	11.1									55.6	5.7	9
06-08		16.7							16.7		66.7	8.2	6
09-11										40.0	60.0	9.6	5
12-14	12.5				25.0		12.5			25.0	25.0	6.5	8
15-17					12.5	12.5				25.0	50.0	8.4	8
18-20											100.0	10.0	1
21-23	25.0	25.0		25.0							25.0	3.5	4
TOTALS	15.7	7.7		3.1	4.7	1.6	1.6		2.1	11.3	52.3	7.0	52

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER PERIOD OF RECORD: 80-81
MONTH: MAY

HOURS (LST)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER												TOTAL OBS
	0	1	2	3	4	5	6	7	8	9	10	MEAN	
00-02				22.2	22.2				22.2	11.1	22.2	6.6	9
03-05	9.1	18.2					9.1		18.2	9.1	36.4	6.6	11
06-08	7.1	14.3			14.3					28.6	35.7	6.9	14
09-11		20.0				20.0	10.0		20.0		30.0	6.4	10
12-14		12.5		12.5			12.5		25.0	12.5	25.0	6.9	8
15-17	10.0			10.0		20.0	30.0		10.0	10.0	10.0	5.8	10
18-20					28.6	14.3			28.6	14.3	14.3	6.9	7
21-23	30.0			10.0		10.0			20.0		10.0	4.4	10
TOTALS	7.0	8.1		6.8	8.1	10.5	7.7		18.0	10.7	23.0	6.3	79

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER PERIOD OF RECORD: 80-81
MONTH: JUN

HOURS (LST)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER												TOTAL OBS
	0	1	2	3	4	5	6	7	8	9	10	MEAN	
00-02	25.0			16.7	8.3	8.3	8.3			8.3	25.0	5.0	12
03-05	10.0			20.0		10.0	10.0			10.0	20.0	5.6	10
06-08	9.1				18.2	9.1	9.1			18.2	36.4	7.0	11
09-11		7.7		7.7			30.8		7.7	23.1	23.1	7.2	13
12-14				6.7			6.7		26.7	33.3	26.7	8.4	15
15-17				5.3	10.5	15.8	15.8		15.8	15.8	21.1	7.1	19
18-20				7.1	7.1	14.3			21.4	14.3	35.7	7.8	14
21-23						18.2			9.1	18.2	54.5	8.7	11
TOTALS	5.5	1.0		7.9	5.5	12.0	10.1		10.1	17.7	30.3	7.1	105

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER PERIOD OF RECORD: 80-81,86
MONTH: JUL

HOURS (LST)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER												TOTAL OBS
	0	1	2	3	4	5	6	7	8	9	10	MEAN	
00-02	11.1					11.1	22.2			11.1	44.4	7.3	9
03-05							7.1			14.3	78.6	9.6	14
06-08				10.0			10.0			10.0	70.0	6.8	10
09-11										14.3	85.7	9.9	7
12-14				8.3	8.3	8.3	8.3		16.7	16.7	33.3	7.7	12
15-17									9.1	27.3	63.6	9.5	11
18-20						7.7			30.8	23.1	38.5	8.6	13
21-23	7.7								7.7	7.7	76.9	9.0	13
TOTALS	2.4			2.3	1.0	3.4	6.0		8.0	15.6	61.4	8.8	89

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER PERIOD OF RECORD: 77,79-82
MONTH: AUG

HOURS (LST)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER												TOTAL OBS
	0	1	2	3	4	5	6	7	8	9	10	MEAN	
00-02	5.6	5.6		11.1	11.1	16.7			5.6	5.6	38.9	6.5	18
03-05					7.7		7.7		7.7	7.7	69.2	9.0	13
06-08	5.9				11.8		5.9		5.9	11.8	58.8	8.2	17
09-11		14.3		7.1	14.3		7.1		7.1	21.4	28.6	6.7	14
12-14					5.9	5.9	5.9		29.4	23.5	29.4	8.3	17
15-17				9.1	18.2	9.1	9.1		18.2	9.1	27.3	7.0	11
19-20	21.4			14.3	7.1					21.4	35.7	6.2	14
21-23	22.2	11.1				11.1				11.1	44.4	6.1	9
TOTALS	6.9	3.9		5.2	9.5	5.4	4.5		9.2	14.0	41.5	7.3	113

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER PERIOD OF RECORD: 77,80-81,85
MONTH: SEP

PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER

HOURS (LST)	0	1	2	3	4	5	6	7	8	9	10	MEAN	TOTAL OBS
00-02	16.1	6.5		3.2	9.7	3.2	6.5		6.5	12.9	35.5	6.3	31
03-05	9.5				4.8	19.0	9.5		4.8	4.8	47.6	7.3	21
06-08	2.9	5.9		2.9	5.9	5.9	5.9		8.8	11.8	50.0	7.8	34
09-11	4.0	4.0				4.0	4.0		4.0	16.0	64.0	8.6	25
12-14	4.5	9.1			9.1	4.5	4.5		18.2	31.8	18.2	7.1	22
15-17		5.0			10.0	10.0	15.0		20.0	10.0	30.0	7.4	20
18-20	9.8	4.9		2.4	4.9	17.1	12.2		4.9	19.5	24.4	6.5	41
21-23	17.1	2.9		5.7	2.9	2.9	5.7		14.3	17.1	31.4	6.6	35
TOTALS	6.0	4.6		1.8	5.9	8.3	7.9		10.2	15.5	37.6	7.2	229

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER PERIOD OF RECORD: 77-78,80-82,84-86
MONTH: OCT

PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER

HOURS (LST)	0	1	2	3	4	5	6	7	8	9	10	MEAN	TOTAL OBS
00-02		9.1				13.6			9.1		68.2	8.3	22
03-05	6.7	6.7		13.3		6.7	6.7				60.0	7.2	15
06-08						4.5			4.5	13.6	77.3	9.5	22
09-11							7.1		14.3	7.1	71.4	9.4	14
12-14					9.1		9.1		9.1	18.2	54.5	8.7	11
15-17						5.9	5.9		11.8	11.8	64.7	9.1	17
18-20	7.7			15.4	7.7	7.7			15.4		46.2	7.0	13
21-23		14.3								14.3	71.4	8.6	14
TOTALS	1.8	3.8		3.6	3.1	4.8	3.6		6.0	8.1	64.2	8.5	128

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER PERIOD OF RECORD: 78-83,85-86
MONTH: NOV

PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER

HOURS (LST)	0	1	2	3	4	5	6	7	8	9	10	MEAN	TOTAL OBS
00-02	50.0										50.0	5.0	6
03-05					14.3	7.1	7.1				71.4	8.5	14
06-08					7.7	7.7	7.7		7.7	7.7	61.5	8.6	13
09-11		6.3			6.3				6.3	12.5	68.8	8.8	16
12-14						12.5			12.5	12.5	62.5	9.0	8
15-17						10.0			10.0	30.0	50.0	9.0	10
18-20					11.1	11.1					77.8	8.8	9
21-23							10.0				90.0	9.6	10
TOTALS	6.3	.6			4.9	6.1	3.1		4.6	7.8	66.5	6.4	86

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER PERIOD OF RECORD: 80-81,85-86
MONTH: DEC

PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER

HOURS (LST)	0	1	2	3	4	5	6	7	8	9	10	MEAN	TOTAL OBS
00-02					14.3						85.7	9.1	7
03-05				10.0		10.0			10.0		70.0	8.6	10
06-08						11.1				22.2	66.7	9.2	9
09-11					12.5					12.5	75.0	9.1	8
12-14						16.7					83.3	9.2	6
15-17	7.1						7.1		7.1	7.1	71.4	8.8	14
18-20											100.0	10.0	9
21-23	10.0				10.0	10.0			10.0		60.0	7.7	10
TOTALS	2.1			1.3	4.6	6.0	.9		3.4	5.2	76.5	9.0	73

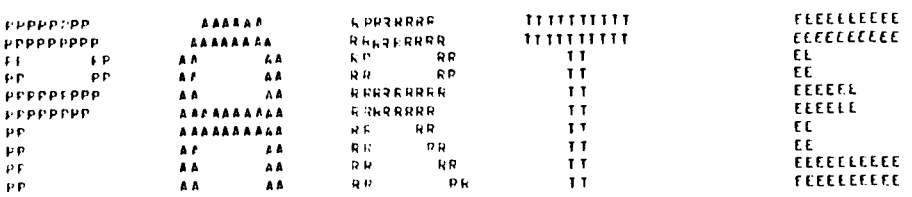
GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER
FROM HOURLY OBSERVATIONS

STATION NUMBER: 10687J STATION NAME: GRAFENWOHR AAF GER PERIOD OF RECORD: 77-87
MONTH: ALL

PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER

HOURS (LST)	0	1	2	3	4	5	6	7	8	9	10	MEAN	TOTAL OBS
JAN ALL	.7			1.8	4.6	3.1	4.4		2.5	10.7	72.2	9.1	91
FEB	7.2	8.5		8.7	1.8	2.7	6.0			6.3	58.9	7.4	67
MAR	4.3	1.3		.8	8.9	1.8	8.4			10.1	64.5	8.4	74
APR	15.7	7.7		3.1	4.7	1.6	1.6		2.1	11.3	52.3	7.0	52
MAY	7.0	8.1		6.8	8.1	10.5	7.7		18.0	10.7	23.0	6.3	79
JUN	5.5	1.0		7.9	5.5	12.0	10.1		10.1	17.7	30.3	7.1	105
JUL	2.4			2.3	1.0	3.4	6.0		8.0	15.6	61.4	8.8	89
AUG	6.9	3.9		5.2	9.5	5.4	4.5		9.2	14.0	41.5	7.3	113
SEP	8.0	4.8		1.8	5.9	8.3	7.9		10.2	15.5	37.6	7.2	229
OCT	1.8	3.8		3.6	2.1	4.8	3.6		8.0	8.1	64.2	8.5	128
NOV	6.3	.8			4.9	6.1	3.1		4.6	7.8	66.5	8.4	86
DEC	2.1			1.3	4.6	6.0	.9		3.4	5.2	76.5	9.0	73
TOTALS	5.7	3.3		3.6	5.1	5.5	5.4		6.3	11.1	54.1	7.9	1186



TEMPERATURE AND RELATIVE HUMIDITY SUMMARIES

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF DAILY MAXIMUM (MINIMUM AND MEAN) TEMPERATURES

DATA DERIVED FROM SUMMARY OF DAY DATA.

PERCENTAGE TABULATIONS PRESENTED BY 5-DEGREE FAHRENHEIT INCREMENTS PLUS THE MEAN, STANDARD DEVIATIONS AND TOTAL OBSERVATION COUNT.

THE MINIMUM TABLE ALSO INCLUDES A 33 FAHRENHEIT DEGREE INCREMENT.

SINCE MANY STATIONS/SITES DO NOT HAVE MAXIMUM/MINIMUM THERMOMETERS, THESE TEMPERATURES WERE SELECTED BY SCANNING THE HOURLY OBSERVATIONS FOR THE HIGHEST AND LOWEST VALUES.

STATISTICS DO NOT INCLUDE INCOMPLETE MONTHS (THOSE CONTAINING ASTERISKS).

FOUR OR MORE COMPLETE MONTHS ARE REQUIRED FOR COMPUTATION AND DISPLAY OF STATISTICAL VALUES.

EXTREME MAXIMUM AND MINIMUM VALUES

DATA DERIVED FROM SUMMARY OF DAY DATA.

PRESENTED ARE THE HIGHEST (LOWEST) TEMPERATURE FOR THE MONTH FOR EACH YEAR.

ALSO PRESENTED ARE STATISTICAL VALUES WITH THE SAME LIMITATIONS MENTIONED ABOVE.

AN ASTERIST INDICATES AN INCOMPLETE MONTH.

MEANS AND STANDARD DEVIATIONS FOR DRY BULB (WET BULB AND DEW POINT) TEMPERATURES

DATA DERIVED FROM HOURLY OBSERVATIONS.

DATA PRESENTED BY THE STANDARD 3-HOUR TIME GROUPS BY MONTH, MONTHLY AND ANNUALLY (ALL YEARS COMBINED).

PRESENTED ARE MEANS, STANDARD DEVIATION AND OBSERVATION COUNTS.

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF RELATIVE HUMIDITY

DATA DERIVED FROM HOURLY OBSERVATIONS.

SUMMARIZED BY THE STANDARD 3-HOUR TIME GROUPS BY MONTH, MONTHLY AND ANNUALLY (ALL YEARS COMBINED).

PERCENTAGE VALUES PRESENTED IN 10 DEGREE INCREMENTS OF RELATIVE HUMIDITY.

ALSO PRESENTED ARE THE MEAN VALUES AND OBSERVATION COUNTS.

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE OF OCCURRENCE OF MAXIMUM TEMPERATURES
FROM SUMMARY OF DAY DATA

STATION NUMBER: 10687 STATION NAME: GRAFENWOHR AF GER PERIOD OF RECORD: 62-67

TEMP(F)		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
GE	100							.1						.0
GE	95							.3						.0
GE	90						.7	3.0	1.8					.5
GE	85					.6	4.3	11.5	5.3	.3				1.9
GE	80				.4	3.5	15.3	25.9	19.0	3.6				5.7
GE	75				.9	14.5	31.3	41.8	39.0	13.5	1.2			12.0
GE	70			.6	6.3	26.2	49.3	56.9	57.9	31.6	4.4			19.8
GE	65			2.7	15.1	42.8	64.5	75.8	79.1	51.3	12.8	.1		29.0
GE	60		.1	7.7	28.0	61.9	80.9	89.5	92.5	73.7	28.9	.9		39.1
GE	55		.9	13.4	45.4	82.7	94.8	99.4	99.2	91.1	50.3	6.4		49.1
GE	50	.5	4.3	27.1	63.9	92.8	99.3	100.0	100.0	98.8	74.2	19.4	3.2	57.5
GE	45	4.5	13.5	47.1	81.0	98.6	100.0			99.9	89.3	37.8	9.7	65.6
GE	40	15.9	29.4	70.5	94.2	100.0				100.0	97.9	59.8	22.6	74.6
GE	35	28.6	58.3	90.6	99.5						99.9	82.1	49.7	85.1
GE	30	69.1	85.2	97.2	100.0						100.0	96.5	78.8	94.0
GE	25	84.3	96.2	99.2								99.6	90.8	97.5
GE	20	92.8	99.0	99.7								100.0	96.8	99.0
GE	15	97.4	100.0	100.0									99.2	99.7
GE	10	99.6											99.7	99.9
GE	5	100.0											100.0	100.0
MEAN		32.1	36.2	44.8	53.7	63.2	69.2	72.5	71.7	65.3	54.9	42.1	34.5	53.4
SD		7.849	7.043	8.929	9.605	9.292	9.358	9.417	8.209	8.057	8.243	7.673	7.960	16.695
TOTAL OBS		760	705	775	747	775	750	773	775	749	775	747	749	9080

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE OF OCCURRENCE OF MINIMUM TEMPERATURES
FROM SUMMARY OF DAY DATA

STATION NUMBER: 10687C STATION NAME: GRAFENWOHR AF GER PERIOD OF RECORD: 62-87

TEMP(F)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
GE 65					.1		.1						.0
GE 60					.3	1.2	4.1	3.0					.7
GE 55					2.1	13.2	24.5	22.3	5.1	.4			5.7
GE 50			.3	.3	14.2	44.0	60.8	55.2	22.8	6.1	.7		17.2
GE 45		.1	1.3	5.5	36.4	71.3	83.6	79.5	49.4	17.2	2.9	.9	29.3
GE 40	1.2	.9	4.1	18.5	61.5	88.4	96.2	93.8	72.4	34.8	10.0	3.9	40.9
GE 35	6.8	7.8	19.1	42.4	85.3	98.7	99.7	98.8	88.3	61.4	30.7	12.6	54.7
GE 33	12.9	16.0	28.3	51.7	89.9	99.2	100.0	99.6	94.0	68.9	41.5	19.8	60.6
GE 30	30.5	32.9	50.8	74.7	96.5	100.0		100.0	98.4	83.5	63.3	41.3	73.0
GE 25	51.4	53.0	76.0	94.0	99.5				100.0	96.1	86.5	63.2	85.2
GE 20	64.7	67.7	86.1	98.8	100.0					99.2	94.1	75.7	90.7
GE 15	74.9	78.6	92.6	100.0						99.9	97.7	84.2	94.1
GE 10	82.8	86.1	95.4							100.0	99.1	89.7	96.2
GE 5	88.2	90.6	96.9								99.6	94.3	97.5
GE 0	93.2	94.0	98.5								100.0	97.2	98.6
GE -5	95.0	95.9	99.0									98.4	99.0
GE -10	98.0	98.2	99.6									99.5	99.6
GE -15	98.9	99.6	99.7									99.9	99.8
GE -20	100.0	100.0	100.0									100.0	100.0
MEAN	21.3	22.3	27.9	33.6	41.7	47.6	50.3	49.5	43.8	36.9	31.2	25.0	35.9
SD	12.418	11.746	9.131	6.421	6.746	6.029	5.577	5.959	6.829	7.423	7.202	10.748	13.097
TOTAL OBS	760	705	775	747	775	750	773	775	749	775	747	749	9308

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE OF OCCURRENCE OF MEAN TEMPERATURES
FROM SUMMARY OF DAY DATA

STATION NUMBER: 10687C STATION NAME: GRAFENWOHR AF GER PERIOD OF RECORD: 62-87

TEMP(F)		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
GE	80							.1						.0
GE	75							1.2	.4					.1
GE	70					.5	3.1	11.5	7.1	.1				1.4
GE	65					3.2	21.1	33.8	26.5	4.7				7.5
GE	60				.8	15.4	45.5	60.2	56.8	22.2	1.7			17.1
GE	55			.5	5.8	37.7	73.7	86.4	87.0	50.5	10.6	.3		29.7
GE	50		.3	4.9	20.2	67.7	90.1	99.2	98.2	81.0	30.7	3.6	.3	41.8
GE	45	.7	1.4	12.1	45.6	91.4	99.6	100.0	100.0	96.9	57.9	12.3	3.2	52.2
GE	40	6.1	9.1	32.9	72.4	97.5	100.0			99.9	84.4	34.5	8.8	62.6
GE	35	21.1	30.9	67.6	93.2	100.0				100.0	97.9	65.5	30.0	75.9
GE	30	50.0	57.4	86.5	99.6						99.9	88.5	61.7	87.2
GE	25	67.2	75.0	92.5	100.0						100.0	95.9	76.0	92.5
GE	20	79.2	87.9	97.0								99.1	87.3	95.9
GE	15	88.0	93.8	98.7								99.9	94.8	98.0
GE	10	92.9	97.2	99.4								100.0	97.2	98.9
GE	5	96.7	99.6	99.9									98.8	99.6
GE	0	99.1	99.9	100.0									99.6	99.9
GE	-5	99.9	100.0										100.0	100.0
GE	-10	100.0												100.0
MEAN		27.0	29.5	36.6	43.9	52.7	58.7	61.6	60.9	54.8	46.2	36.9	30.0	44.9
SD		9.724	8.572	7.730	6.476	6.563	6.489	6.131	5.648	5.749	6.355	6.783	8.666	14.165
TOTAL OBS		760	705	775	747	775	750	773	775	749	775	747	749	9068

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

EXTREME VALUES OF MAXIMUM TEMPERATURE
(FROM DAILY OBSERVATIONS)

STATION NUMBER: 1C687C STATION NAME: GRAFENWOHR AF GER PERIOD OF RECORD: 62-P7

WHOLE DEGREES FAHRENHEIT

YEAR	JAN	FEB	MAR	APR	MAY	-M-O-N-T-H-S- JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
62						87	88	91	83	76	61	43	
63	*35	35	53	67	76	86	89	90	77	65	62	38	90
64	38	42	52	75	80	89	91	91	84	66	55	45	91
65	47	36	60	65	77	84	88	85	75	73	58	54	88
66	48	60	54	71	79	84	81	90	79	79	60	44	90
67	51	55	60	66	78	90	90	87	78	70	52	50	90
68	45	47	74	84	78	83	89	80	77	67	65	43	89
69	44	46	52	74	88	81	92	87	79	70	59	*38	92
70	43	45	55	68	72	86	86	85	83	68	63	45	86
71	48	46	66	71	87	78	91	91	75	71	57	50	91
72	37	48	66	69	73	82	89	91	78	68	51	46	91
73	39	42	62	64	78	84	86	87	87	68	53	46	87
74	*48	53	73	73	73	75	80	89	78	51	53	*53	89
75	46	51	59	71	80	80	84	84	87	64	50	*44	87
76	*48	53	64	71	86	93	93	80	75	73	51	*42	93
77	*44	55	69	68	80	87	*91	82	75	73	*60	*42	*91
78	*39	50	68	66	77	84	84	84	75	69	*50	*50	84
79	*37	44	57	*66	86	87	82	84	*61	68	*50	*54	87
80	*43	55	61	72	73	90	91	90	81	64	59	*46	90
81	*41	45	64	*73	81	88	84	84	84	73	57	*48	88
82	*43	*46	66	70	82	90	*90	86	84	72	57	*52	90
83	*54	52	55	73	82	84	102	91	81	73	55	*48	102
84	*48	46	57	72	75	82	95	82	79	64	57	*43	95
85	*41	46	59	73	82	81	86	90	79	79	54	*52	90
86	*48	43	63	73	81	86	88	90	73	72	52	*46	90
87	*36	45	54	75	73								
MEAN	44.2	47.5	60.9	70.9	79.1	84.8	87.8	86.8	79.4	69.4	56.3	45.8	89.2
S.D.	4.535	6.022	6.231	4.274	4.609	4.140	5.081	3.659	3.988	5.701	4.099	4.285	1.856
TOTAL OBS	760	705	775	747	775	750	773	775	749	775	747	749	9080

NOTES * (BASED ON LESS THAN FULL MONTHS)
(AT LEAST ONE DAY LESS THAN 24 OBS)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

EXTREME VALUES OF MINIMUM TEMPERATURE
(FROM DAILY OBSERVATIONS)

STATION NUMBER: 10687C STATION NAME: GRAFENWOHR AF GER PERIOD OF RECORD: 62-87

WHOLE DEGREES FAHRENHEIT

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
						-M-O-N-T-H-S-							
62						33	41	34	29	22	12	-15	
63	*-18	-18	-7	26	30	35	40	39	36	23	28	0	*-18
64	-9	9	9	27	31	38	34	34	27	23	28	13	-9
65	18	-2	-1	25	29	38	38	34	32	24	8	25	-3
66	-4	24	22	27	32	38	39	37	32	24	15	13	-4
67	-8	10	24	24	31	35	42	37	34	28	20	3	-8
68	-8	8	10	20	28	37	42	35	38	26	23	-1	-8
69	13	8	17	24	30	39	42	39	31	30	18	*-19	*-19
70	10	-5	3	28	30	35	39	37	28	26	24	1	-5
71	-13	10	1	23	32	35	41	44	28	23	12	19	-13
72	0	10	19	19	33	30	39	37	28	14	17	6	0
73	6	10	15	21	28	35	46	39	30	19	14	-5	-5
74	*24	26	21	24	30	37	42	42	32	28	21	*19	*19
75	23	14	17	24	30	30	37	46	37	21	3	*0	*0
76	*-4	17	3	15	21	35	35	33	33	30	28	*-9	*-9
77	*5	8	12	19	32	30	*37	39	28	26	*3	*5	*3
78	*5	-9	19	19	26	32	35	32	32	26	*17	*1	-9
79	*-9	1	17	*24	24	39	33	35	*28	25	*18	*18	*-9
80	*-6	12	19	25	23	39	37	32	32	25	12	*-2	*-6
81	*-2	3	25	*19	25	37	41	36	32	28	16	*-9	*-9
82	*-18	*7	19	21	28	36	*46	39	34	28	23	*23	*-18
83	*27	-9	19	27	32	36	39	37	28	19	3	*-4	-9
84	*12	-6	10	21	28	36	36	41	34	27	23	*9	-6
85	*-20	-20	21	19	30	32	39	37	30	23	14	*-4	*-20
86	*7	-13	18	19	36	36	37	37	28	27	18	*18	-13
87	*-17	-13	-18	27	28								
MEAN	2.5	3.1	12.6	22.8	29.1	35.3	38.9	37.3	31.4	24.6	17.3	5.4	*6.1
S.D.	12.169	12.563	10.532	3.529	3.353	2.780	3.109	3.482	3.090	3.708	7.291	11.422	3.822
TOTAL OBS	760	705	775	747	775	750	773	775	749	775	747	749	9080

NOTES * (BASED ON LESS THAN FULL MONTHS)
(AT LEAST ONE DAY LESS THAN 24 OBS)

GLOBAL CLIMATOLOGY BRANCH — DRY-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS — MEANS AND STANDARD DEVIATIONS
USAFETAC
AIR WEATHER SERVICE/MAC

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER PERIOD OF RECORD: 77-87

HOURS LST	STATS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02	MEAN	24.5	23.6	32.4	36.7	45.0	51.7	53.6	53.4	47.8	41.6	34.6	30.7	40.0
	SD	11.949	11.413	8.647	6.595	7.411	6.777	5.801	6.485	7.145	7.547	7.827	8.859	13.140
	TOT OBS	862	846	930	884	918	896	924	930	894	929	886	767	10666
03-05	MEAN	23.7	22.2	31.2	34.8	42.8	49.3	51.3	51.3	46.0	40.5	34.0	29.9	38.3
	SD	12.277	12.606	9.531	6.812	7.348	6.837	6.155	6.797	7.739	7.669	8.149	9.227	13.083
	TOT OBS	871	846	930	885	918	899	924	930	894	930	885	805	10717
06-08	MEAN	23.7	21.8	31.7	37.8	48.2	55.3	56.8	54.7	47.9	41.0	34.1	29.6	40.5
	SD	12.471	13.079	9.692	6.880	7.663	7.108	6.568	6.837	7.461	7.635	8.090	9.504	14.693
	TOT OBS	883	846	930	887	924	900	924	930	895	930	888	856	10793
09-11	MEAN	25.7	27.3	38.1	47.0	56.9	63.5	65.7	65.0	57.3	47.7	36.9	31.6	47.2
	SD	10.990	9.131	8.002	8.082	9.056	6.915	8.392	7.098	6.996	7.117	7.352	8.329	16.396
	TOT OBS	889	846	930	891	930	900	924	930	894	930	888	860	10812
12-14	MEAN	29.3	32.9	42.9	51.8	60.8	66.9	69.6	69.9	63.3	53.3	40.3	34.7	51.6
	SD	8.468	6.419	7.756	9.778	10.080	9.663	9.630	8.122	7.872	7.480	7.319	7.132	16.551
	TOT OBS	891	846	930	891	930	900	924	930	894	930	887	851	10804
15-17	MEAN	29.2	33.3	43.6	52.5	61.2	67.6	70.7	70.5	63.9	53.2	39.7	33.9	51.9
	SD	8.389	6.519	7.900	10.247	10.456	9.915	9.884	8.533	8.459	7.638	7.397	7.018	16.968
	TOT OBS	891	846	930	898	927	900	924	930	894	930	888	844	10792
18-20	MEAN	26.2	28.8	38.6	47.6	57.1	64.1	66.9	64.9	56.7	46.3	36.2	31.6	47.4
	SD	10.391	7.471	7.715	8.858	9.509	9.030	8.957	7.896	7.194	7.054	7.020	7.568	16.333
	TOT OBS	891	846	930	883	921	900	922	930	890	930	888	826	10757
21-23	MEAN	25.0	25.8	34.3	40.1	48.9	55.7	57.9	56.8	50.3	42.6	34.8	30.6	42.2
	SD	11.586	9.583	7.854	6.949	7.795	7.068	6.289	6.259	6.360	7.221	7.444	8.388	13.838
	TOT OBS	885	846	930	892	922	898	922	930	889	930	887	776	10699
ALL HOURS	MEAN	25.9	27.0	36.6	43.5	52.6	59.3	61.6	60.8	54.2	45.8	36.3	31.6	44.9
	SD	11.106	10.684	9.615	10.455	11.051	10.618	10.563	10.223	9.977	8.909	7.930	8.463	16.007
	TOT OBS	7063	6768	7440	7091	7390	7193	7388	7440	7144	7439	7097	6587	86040

GLOBAL CLIMATOLOGY BRANCH USAFETAC
AIR WEATHER SERVICE/MAC

WET-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

MEANS AND STANDARD DEVIATIONS

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-87

HOURS LST	STATS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02	MEAN	24.0	23.4	31.4	35.5	43.5	49.8	51.9	52.2	46.6	40.6	33.9	30.1	38.9
	SD	11.674	11.251	8.252	6.199	7.001	6.158	5.266	6.050	6.875	7.272	7.530	8.469	12.625
	TOT OBS	862	846	930	884	918	896	924	930	894	929	886	767	10666
03-05	MEAN	23.3	21.8	30.3	33.9	41.8	48.0	50.1	50.3	45.2	39.6	33.4	29.4	37.5
	SD	12.065	12.478	9.227	6.432	7.078	6.425	5.695	6.447	7.459	7.403	7.912	8.935	12.702
	TOT OBS	871	846	930	885	916	899	924	930	894	930	885	805	10717
06-08	MEAN	23.3	21.5	30.6	36.2	45.8	52.3	54.0	53.0	46.8	40.1	33.4	29.1	39.1
	SD	12.268	12.930	9.157	6.204	6.711	5.911	5.184	6.156	7.061	7.350	7.747	9.237	13.771
	TOT OBS	883	846	930	887	924	900	924	930	895	930	888	856	10793
09-11	MEAN	25.2	26.3	35.7	42.1	50.5	55.9	58.3	59.0	53.2	45.1	35.6	30.9	43.4
	SD	10.770	9.038	7.086	6.114	6.601	5.941	5.067	5.041	5.628	6.215	6.868	8.049	13.690
	TOT OBS	889	846	930	891	930	900	924	930	894	930	888	860	10812
12-14	MEAN	28.3	30.8	38.7	44.4	52.1	57.0	59.4	60.7	55.9	48.4	38.1	33.4	45.8
	SD	6.306	6.126	6.233	6.568	6.610	5.959	5.199	5.282	5.663	5.921	6.483	6.714	12.722
	TOT OBS	891	846	930	891	930	900	924	930	894	930	887	851	10804
15-17	MEAN	28.3	31.1	39.1	44.6	52.1	57.1	59.8	60.9	56.3	48.4	37.7	32.9	45.9
	SD	8.191	6.050	6.211	6.566	6.588	5.837	5.142	5.265	5.971	6.113	6.619	6.715	12.837
	TOT OBS	891	846	930	888	927	900	924	930	894	930	886	844	10790
18-20	MEAN	25.7	27.8	36.1	42.5	50.6	56.1	58.7	59.1	53.0	44.3	35.1	31.0	43.6
	SD	10.145	7.373	6.626	6.471	6.563	5.714	5.056	5.233	5.972	6.626	6.719	7.334	13.410
	TOT OBS	891	846	930	883	921	900	922	930	890	930	885	826	10754
21-23	MEAN	24.5	25.2	32.9	37.8	46.3	52.3	54.8	54.7	48.7	41.4	34.0	30.2	40.5
	SD	11.286	9.389	7.293	6.213	6.806	5.843	4.942	5.442	6.042	6.949	7.151	8.064	12.647
	TOT OBS	885	846	930	882	922	898	922	930	889	930	884	778	10696
ALL HOURS	MEAN	25.3	26.0	34.4	39.7	47.8	53.6	55.9	56.2	50.7	43.5	35.2	30.9	41.8
	SD	10.841	10.277	8.294	7.498	7.715	6.804	6.237	6.865	7.576	7.543	7.359	8.113	13.438
	TOT OBS	7063	6768	7440	7091	7390	7193	7388	7440	7144	7439	7089	6587	86032

GLOBAL CLIMATOLOGY BRANCH USAFETAC — DEW-POINT TEMPERATURES DEG F FROM HOURLY OBSERVATIONS — MEANS AND STANDARD DEVIATIONS

AIR WEATHER SERVICE/MAC

STATION NUMBER: 10687O STATION NAME: GRAFENWOHR AAF GER PERIOD OF RECORD: 77-87

HOURS LST	STATS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02	MEAN	22.7	21.8	29.8	33.7	42.0	46.2	50.6	51.1	45.9	39.4	32.7	29.1	37.5
	SD	12.138	12.055	8.551	6.535	7.325	6.085	5.204	5.987	6.911	7.472	7.874	8.453	12.844
	TOT OBS	862	846	930	884	918	896	924	930	894	929	886	767	10666
03-05	MEAN	21.9	20.3	28.9	32.5	40.7	46.8	49.1	49.5	44.5	38.7	32.3	28.5	36.4
	SD	12.794	13.433	9.526	6.709	7.368	6.393	5.562	6.341	7.439	7.559	8.218	9.019	13.016
	TOT OBS	871	846	930	885	918	899	924	930	894	930	885	805	10717
06-08	MEAN	22.0	19.9	29.3	34.2	43.5	49.8	51.9	51.7	45.8	39.1	32.3	28.2	37.5
	SD	12.998	13.954	9.584	6.458	6.893	5.816	4.463	5.987	6.998	7.488	7.952	9.424	13.781
	TOT OBS	883	846	930	887	924	900	924	930	895	930	888	856	10793
09-11	MEAN	23.7	23.7	32.3	36.5	44.9	50.2	53.0	54.8	50.0	42.5	33.9	29.7	39.8
	SD	11.502	10.542	7.651	6.667	7.126	5.945	5.022	5.342	5.821	6.511	7.174	8.367	13.016
	TOT OBS	889	846	930	891	930	900	924	930	894	930	888	860	10812
12-14	MEAN	26.0	26.9	33.2	36.3	44.5	49.5	52.3	54.6	50.3	43.7	35.4	31.5	40.5
	SD	9.422	8.144	7.401	6.987	7.201	6.122	5.178	5.869	6.291	6.630	6.901	7.314	11.901
	TOT OBS	891	846	930	891	930	900	924	930	894	930	887	851	10804
15-17	MEAN	26.2	27.2	33.3	36.1	44.1	49.3	52.4	54.6	50.4	43.9	35.1	31.3	40.5
	SD	9.153	7.695	7.175	6.981	7.186	6.121	5.251	5.730	6.616	6.680	6.995	7.290	11.842
	TOT OBS	891	846	930	888	927	900	924	930	894	930	886	844	10790
18-20	MEAN	24.2	25.3	32.4	36.8	44.8	50.0	52.9	55.2	50.2	42.4	33.6	29.9	40.0
	SD	10.713	8.639	7.077	6.870	6.926	6.022	5.091	5.172	6.139	6.959	7.219	7.765	12.650
	TOT OBS	891	846	930	893	921	900	922	930	890	930	885	826	10754
21-23	MEAN	23.1	23.3	30.6	35.0	43.9	49.6	52.4	53.2	47.4	40.1	32.7	29.2	38.7
	SD	11.626	10.160	7.540	6.657	7.023	5.896	4.878	5.278	6.148	7.228	7.491	8.271	12.648
	TOT OBS	885	846	930	882	922	898	922	930	889	930	884	778	10696
ALL	MEAN	23.7	23.6	31.2	35.1	43.5	49.2	51.8	53.1	48.1	41.2	33.5	29.7	38.9
	SD	11.463	11.111	8.285	6.691	7.261	6.142	5.287	6.050	6.949	7.348	7.575	8.337	12.835
HOURS	TOT OBS	7063	6768	7440	7091	7390	7193	7388	7440	7144	7439	7089	6587	86032

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: JAN

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NUM OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	00-02	100.0	100.0	100.0	99.6	99.8	99.7	96.3	93.4	71.0	93.0	862
	03-05	100.0	100.0	100.0	99.8	99.5	98.9	97.5	93.1	72.6	93.2	871
	06-08	100.0	100.0	100.0	100.0	100.0	99.1	98.2	93.3	71.3	93.2	883
	09-11	100.0	100.0	100.0	100.0	100.0	99.4	97.2	91.0	65.6	91.9	889
	12-14	100.0	100.0	100.0	100.0	100.0	99.6	93.5	76.4	46.0	87.7	891
	15-17	100.0	100.0	100.0	100.0	100.0	99.4	94.3	81.6	49.6	88.6	891
	18-20	100.0	100.0	100.0	100.0	100.0	99.8	98.5	92.8	65.0	91.9	891
	21-23	100.0	100.0	100.0	100.0	100.0	99.9	99.4	95.1	67.1	92.7	885
	TOTALS	100.0	100.0	100.0	100.0	99.9	99.5	97.1	89.6	63.5	91.5	7063

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 78-87
MONTH: FEB

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NUM OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
FEB	00-02	100.0	100.0	100.0	100.0	99.5	98.7	97.3	91.3	68.3	92.1	846
	03-05	100.0	100.0	100.0	99.8	99.3	98.6	96.6	90.8	73.4	92.9	846
	06-08	100.0	100.0	100.0	99.5	99.5	98.7	96.5	90.8	70.9	92.6	846
	09-11	100.0	99.9	99.8	99.6	98.9	95.3	88.1	76.1	49.2	87.2	846
	12-14	100.0	100.0	99.9	98.7	95.7	86.1	71.4	56.9	30.1	80.0	846
	15-17	100.0	100.0	100.0	99.2	95.9	86.9	69.9	54.3	28.6	79.5	846
	18-20	100.0	100.0	100.0	100.0	99.5	97.5	88.8	77.1	46.1	86.9	846
	21-23	100.0	100.0	100.0	100.0	100.0	99.6	96.2	86.5	58.4	90.4	846
	TOTALS	100.0	100.0	100.0	99.6	98.5	95.2	88.1	78.0	53.1	87.7	6768

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 76-87
MONTH: MAR

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NUM OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
MAR	00-02	100.0	100.0	100.0	100.0	100.0	99.0	95.6	86.6	58.5	90.2	93(
	03-05	100.0	100.0	100.0	100.0	100.0	99.4	97.3	90.2	62.6	91.4	93(
	06-08	100.0	100.0	100.0	100.0	99.7	98.9	96.5	88.0	60.3	90.9	93(
	09-11	100.0	100.0	100.0	99.9	96.6	90.4	73.8	56.2	29.2	80.8	93(
	12-14	100.0	99.9	99.4	95.9	87.2	69.2	48.3	30.8	12.9	70.5	93(
	15-17	100.0	100.0	99.2	94.7	83.1	67.2	44.2	29.1	12.5	69.0	93(
	18-20	100.0	100.0	99.9	98.9	96.0	88.4	71.0	51.4	22.0	79.0	93(
	21-23	100.0	100.0	100.0	100.0	99.7	98.3	92.2	78.9	43.2	87.6	93(
	TOTALS	100.0	100.0	99.8	98.7	95.3	88.9	77.4	63.9	37.7	82.4	744(

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE FROM HOURLY OBSERVATIONS — RELATIVE HUMIDITY

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER — PERIOD OF RECORD: 78-87
MONTH: APR

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NUM OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
APR	00-02	100.0	100.0	100.0	100.0	100.0	99.8	95.8	84.3	49.5	89.0	884
	03-05	100.0	100.0	100.0	100.0	99.9	99.7	95.9	91.2	63.3	91.5	885
	06-08	100.0	100.0	100.0	100.0	99.5	97.1	89.5	76.1	47.0	87.3	887
	09-11	100.0	100.0	99.6	96.0	83.1	65.9	46.8	29.2	12.8	69.3	891
	12-14	100.0	99.8	94.5	82.6	59.4	41.9	29.5	15.8	7.3	58.8	891
	15-17	100.0	99.7	91.4	75.1	55.5	41.6	29.1	18.4	6.6	57.5	886
	18-20	100.0	100.0	98.6	92.9	81.0	64.7	49.0	32.8	13.5	69.0	883
	21-23	100.0	100.0	100.0	99.9	99.0	94.8	83.7	62.6	28.2	82.8	882
	TOTALS	100.0	99.9	98.0	93.3	84.7	75.7	64.9	51.3	28.5	75.7	7091

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 10687C STATION NAME: GRAFENWOHR AAF GFR

PERIOD OF RECORD: 77-86
MONTH: AUG

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN 10%	20%	30%	40%	50%	60%	70%	80%	90%	MEAN RELATIVE HUMIDITY	TOTAL NUM OBS
AUG	00-02	100.0	100.0	100.0	100.0	100.0	99.7	99.0	93.0	59.9	91.9	930
	03-05	100.0	100.0	100.0	100.0	100.0	100.0	99.2	95.6	68.9	93.6	930
	06-08	100.0	100.0	100.0	100.0	99.9	99.4	96.8	85.4	47.5	89.8	930
	09-11	100.0	100.0	99.9	99.1	93.3	74.0	52.6	27.5	7.2	71.0	930
	12-14	100.0	100.0	99.4	94.1	67.3	43.0	25.7	13.3	2.8	60.1	930
	15-17	100.0	100.0	99.6	91.1	62.2	41.1	25.2	14.5	4.7	59.2	930
	18-20	100.0	100.0	100.0	98.7	89.2	74.0	59.5	33.9	10.8	72.4	930
	21-23	100.0	100.0	100.0	100.0	100.0	98.6	95.5	83.2	39.8	88.1	930
	TOTALS	100.0	100.0	99.9	97.9	89.0	78.7	69.2	55.8	30.2	78.3	7440

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER PERIOD OF RECORD: 77-86
MONTH: SEP

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NUM OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
SEP	00-02	100.0	100.0	100.0	100.0	100.0	100.0	100.0	94.3	66.0	92.9	894
	03-05	100.0	100.0	100.0	100.0	100.0	100.0	99.8	96.3	73.2	94.3	894
	06-08	100.0	100.0	100.0	100.0	100.0	99.9	99.4	92.3	63.4	92.5	895
	09-11	100.0	100.0	100.0	100.0	98.2	88.4	71.3	43.7	17.8	77.6	894
	12-14	100.0	100.0	99.9	96.4	80.1	53.2	33.7	17.3	4.7	64.1	894
	15-17	100.0	100.0	99.7	95.7	75.7	51.1	32.8	18.2	5.9	63.6	894
	18-20	100.0	100.0	100.0	99.9	98.3	92.2	79.6	53.1	14.9	79.7	891
	21-23	100.0	100.0	100.0	100.0	100.0	99.8	98.3	87.3	48.9	89.8	865
	TOTALS	100.0	100.0	100.0	99.0	94.0	85.6	76.9	62.8	36.9	81.8	7144

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 136870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: OCT

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NUM OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
OCT	00-02	100.0	100.0	100.0	100.0	100.0	99.4	96.5	92.8	62.8	92.3	929
	03-05	100.0	100.0	100.0	100.0	100.0	99.7	98.8	95.5	69.0	93.2	930
	06-08	100.0	100.0	100.0	100.0	100.0	99.7	98.8	94.4	66.7	92.9	930
	09-11	100.0	100.0	100.0	99.9	99.4	93.4	82.6	61.5	29.0	82.8	930
	12-14	100.0	100.0	99.6	99.6	91.6	74.7	54.5	29.4	10.4	71.5	930
	15-17	100.0	100.0	99.8	99.4	91.9	76.2	56.9	29.8	10.9	72.0	930
	18-20	100.0	100.0	100.0	100.0	99.8	98.4	93.1	75.2	36.0	86.3	930
	21-23	100.0	100.0	100.0	100.0	100.0	99.5	96.1	89.5	57.2	91.0	930
	TOTALS	100.0	100.0	99.9	99.7	97.8	92.6	84.9	71.0	42.8	85.3	7439

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: NOV

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NUM OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
NOV	00-02	100.0	100.0	100.0	100.0	100.0	100.0	98.3	91.8	68.6	93.0	886
	03-05	100.0	100.0	100.0	100.0	100.0	100.0	98.8	93.7	70.7	93.6	885
	06-08	100.0	100.0	100.0	100.0	100.0	99.7	98.2	93.5	70.7	93.4	886
	09-11	100.0	100.0	100.0	99.9	99.7	98.6	95.0	83.9	50.9	89.5	886
	12-14	100.0	100.0	100.0	99.4	98.6	94.7	82.8	64.5	33.3	83.4	887
	15-17	100.0	100.0	100.0	99.9	99.2	95.7	84.7	67.9	35.3	84.2	886
	18-20	100.0	100.0	100.0	100.0	99.7	99.3	97.1	88.5	56.4	90.4	885
	21-23	100.0	100.0	100.0	100.0	100.0	99.8	98.3	92.1	63.2	92.1	884
	TOTALS	100.0	100.0	100.0	99.9	99.7	98.5	94.2	84.5	56.1	90.0	7089

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-86
MONTH: DEC

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN 10%	20%	30%	40%	50%	60%	70%	80%	90%	MEAN RELATIVE HUMIDITY	TOTAL NUM OBS
DEC	00-02	100.0	100.0	100.0	100.0	100.0	99.6	98.7	96.0	73.9	94.0	767
	03-05	100.0	100.0	100.0	100.0	100.0	100.0	99.1	97.0	76.6	94.7	805
	06-08	100.0	100.0	100.0	100.0	100.0	100.0	99.5	96.4	77.8	94.7	856
	09-11	100.0	100.0	100.0	100.0	100.0	99.5	98.3	93.4	69.0	93.0	860
	12-14	100.0	100.0	100.0	100.0	100.0	98.1	92.9	78.1	53.0	88.5	851
	15-17	100.0	100.0	100.0	100.0	99.9	99.5	96.3	86.0	57.6	90.5	844
	18-20	100.0	100.0	100.0	100.0	100.0	99.4	98.9	95.3	70.6	93.5	826
	21-23	100.0	100.0	100.0	100.0	100.0	99.7	98.7	96.7	74.0	94.0	778
	TOTALS	100.0	100.0	100.0	100.0	100.0	99.5	97.8	92.4	69.1	92.9	6587

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

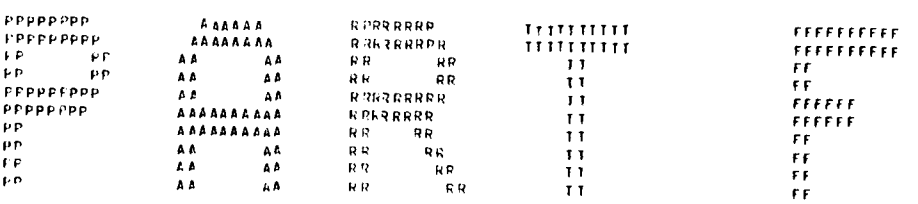
CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER

PERIOD OF RECORD: 77-87
MONTH: ALL

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NUM OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	ALL	100.0	100.0	100.0	100.0	99.9	99.5	97.1	89.6	63.5	91.5	7063
FEB		100.0	100.0	100.0	99.6	98.5	95.2	88.1	78.0	53.1	87.7	6766
MAR		100.0	100.0	99.8	98.7	95.3	88.9	77.4	63.9	37.7	82.4	7440
APR		100.0	99.9	98.0	93.3	84.7	75.7	64.9	51.3	28.5	75.7	7091
MAY		100.0	100.0	98.8	92.6	83.2	72.6	63.3	49.5	26.7	74.7	7390
JUN		100.0	99.9	98.2	93.6	83.7	71.1	59.6	42.2	18.0	72.5	7193
JUL		100.0	100.0	98.8	93.1	82.7	71.9	61.9	47.6	23.0	73.8	7388
AUG		100.0	100.0	99.9	97.9	89.0	78.7	69.2	55.8	30.2	78.3	7441
SEP		100.0	100.0	100.0	99.0	94.0	85.6	76.9	62.8	36.9	81.8	7144
OCT		100.0	100.0	99.9	99.7	97.8	92.6	84.9	71.0	42.8	85.3	7439
NOV		100.0	100.0	100.0	99.9	99.7	98.5	94.2	84.5	56.1	90.0	7069
DEC		100.0	100.0	100.0	100.0	100.0	99.5	97.8	92.4	69.1	92.9	6587
	TOTALS	100.0	100.0	99.5	97.3	92.4	85.9	77.9	65.7	40.5	82.2	86032



PRESSURE SUMMARIES

STATION PRESSURE SUMMARIES

DATA DERIVED FROM HOURLY OBSERVATIONS.

SUMMARIZED BY THE STANDARD 3-HOUR TIME GROUPS BY MONTH, MONTHLY AND ANNUALLY (ALL YEARS COMBINED).

PRESENTED ARE THE MEANS, STANDARD DEVIATIONS AND OBSERVATION COUNTS.

SEA LEVEL PRESSURE SUMMARIES

DATA DERIVED FROM HOURLY OBSERVATIONS.

SUMMARIZED BY THE STANDARD 3-HOUR TIME GROUPS BY MONTH, MONTHLY AND ANNUALLY (ALL YEARS COMBINED).

PRESENTED ARE THE MEANS, STANDARD DEVIATIONS AND OBSERVATION COUNTS.

GLOBAL CLIMATOLOGY BRANCH STATION PRESSURE IN INCHES HG FROM MEANS AND STANDARD DEVIATIONS
USAFETAC HOURLY OBSERVATIONS
AIR WEATHER SERVICE/MAC

STATION NUMBER: 106870 STATION NAME: GRAFENWOHR AAF GER PERIOD OF RECORD: 77-87

HOURS LST	STATS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
01	MEAN	28.530	28.570	28.486	28.495	28.503	28.562	28.605	28.595	28.645	28.628	28.605	28.531	28.564
	SD	.324	.309	.270	.219	.197	.151	.131	.135	.176	.255	.280	.353	.247
	TOT OBS	288	282	310	295	306	299	308	310	298	310	295	254	3555
04	MEAN	28.526	28.560	28.475	28.486	28.496	28.554	28.596	28.587	28.638	28.618	28.598	28.517	28.555
	SD	.322	.311	.270	.218	.202	.151	.133	.138	.177	.256	.279	.361	.249
	TOT OBS	290	282	310	295	306	300	308	310	298	310	295	273	3577
07	MEAN	28.523	28.560	28.482	28.499	28.507	28.566	28.605	28.598	28.648	28.626	28.604	28.526	28.562
	SD	.321	.312	.270	.220	.204	.153	.136	.140	.178	.258	.277	.363	.251
	TOT OBS	295	282	310	295	307	300	308	310	298	310	296	286	3597
10	MEAN	28.541	28.574	28.491	28.507	28.509	28.568	28.606	28.604	28.661	28.643	28.623	28.544	28.573
	SD	.319	.313	.269	.219	.204	.150	.136	.140	.177	.259	.276	.363	.251
	TOT OBS	297	282	310	297	310	300	308	310	298	310	296	287	3605
13	MEAN	28.523	28.562	28.482	28.490	28.494	28.557	28.594	28.589	28.643	28.622	28.607	28.529	28.558
	SD	.319	.310	.269	.215	.200	.146	.131	.137	.173	.257	.275	.362	.246
	TOT OBS	297	282	310	297	310	300	308	310	298	310	296	282	3600
16	MEAN	28.516	28.550	28.463	28.470	28.480	28.541	28.581	28.572	28.625	28.607	28.596	28.522	28.544
	SD	.320	.305	.266	.212	.198	.146	.129	.132	.172	.256	.273	.360	.246
	TOT OBS	297	282	310	297	310	300	308	310	298	310	296	282	3600
19	MEAN	28.526	28.568	28.477	28.476	28.483	28.540	28.576	28.572	28.631	28.621	28.608	28.534	28.551
	SD	.327	.302	.266	.212	.194	.145	.129	.131	.172	.257	.275	.359	.246
	TOT OBS	297	282	310	295	307	300	307	310	296	310	296	275	3585
22	MEAN	28.533	28.576	28.486	28.496	28.509	28.561	28.599	28.594	28.649	28.635	28.612	28.543	28.566
	SD	.328	.301	.270	.217	.196	.147	.130	.134	.175	.257	.279	.353	.246
	TOT OBS	295	282	310	294	308	299	307	310	296	310	296	256	3563
ALL HOURS	MEAN	28.528	28.565	28.481	28.490	28.496	28.556	28.596	28.589	28.643	28.625	28.607	28.531	28.559
	SD	.322	.308	.269	.216	.199	.149	.132	.136	.175	.257	.276	.359	.248
	TOT OBS	2356	2256	2480	2365	2464	2398	2462	2480	2380	2480	2366	2195	28682

END

DATE

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